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TWELFTH ANNUAL REPORT
OF THE
WATER COMMISSIONER



FOR THE YEAR ENDING
JANUARY 31, 1907

31
No 6355.52



1906-'07

Boston. Water Commissioner

TWELFTH ANNUAL REPORT

OF THE

WATER COMMISSIONER

FOR THE

YEAR ENDING JANUARY 31, 1907

Printed for the Department



BOSTON
MUNICIPAL PRINTING OFFICE
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Boston Water Commissioner
July 13 1906

1906-7

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BOSTON WATER COMMISSION

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OFFICE OF THE WATER COMMISSIONER,
CITY HALL, BOSTON, February 1, 1907.

HON. JOHN F. FITZGERALD,

Mayor of the City of Boston:

SIR, — I submit herewith the twelfth annual report of the doings of the Water Department, covering the year ending January 31, 1907.

The receipts and disbursements of the department for the year were as follows:

Total receipts from all sources	\$2,971,845 10
Balance at beginning of year, loan, \$17,540 97	
Balance at beginning of year, tax levy, 9,460 67	
	<hr/> 27,001 64
Total	\$2,998,846 74
Total expenditures for all purposes	2,927,741 45
	<hr/>
Balance at end of the year, loan, \$16,365 90	
Balance at end of the year, tax levy, 54,739 39	
	<hr/>
	\$71,105 29
	<hr/>

TOTAL RECEIPTS OF THE YEAR BY SOURCES.

Sales of water	\$2,471,726 19
Service, elevator, fire, motor and stand pipes, and repairs, labor, materials, etc.	57,862 26
City's proportion of entrance fees from other cities and towns for use of Metropolitan water system,	15,886 82
Fees for summonses	1,669 92
Shutting off and letting on water, on account of repairs	1,651 50
Shutting off and letting on water, on account of non-payment of bills	1,332 00
Use of West Roxbury pumping plant	773 04
Interest on deposits	581 37
Board of City Engineer's horse	312 00
Difference on cost of laying main pipes	40 00
Use of land	10 00
	<hr/>
	\$2,551,845 10
Credited from taxes	120,000 00
Loan (extension of mains)	300,000 00
	<hr/>
	\$2,971,845 10
	<hr/>

EXPENDITURES.

Current expenses	\$544,769 54
Metropolitan water assessment	1,822,556 33
Interest on funded debt	257,764 85
Extension of mains, etc. (from loans)	301,175 07
Refunded water rates	1,475 66
	<hr/>
	\$2,927,741 45
	<hr/>

For detailed account of expenditures, condition of water debt, etc., see statements annexed.

Reports of work performed in the Income and Distribution Divisions and the Engineering Department will be found in the appendices annexed hereto.

Respectfully,

WILLIAM J. WELCH,
Water Commissioner.

Details of expenditures under the appropriation for the current expenses for the fiscal year ending January 31, 1907.
(From revenue.)

Salaries and wages:

Eugene S. Sullivan, commissioner, to January 11, 1906, inclusive	\$152 78
William J. Welch, commissioner, from March 1, 1906	4,166 67
	<hr/>
	\$4,319 45

Assistant commissioners:

Isaac Rosnosky	\$3,000 00
John J. Leahy, to March 1, 1906	500 00
Joseph J. Norton, from March 1, 1906	2,500 00
James P. Lennon, from March 1, 1906	2,500 00
	<hr/>
	8,500 00

Walter E. Swan, chief clerk and secretary, to September 10, 1906	\$2,075 00
--	------------

Walter E. Swan, chief clerk, from September 10, 1906	925 00
	<hr/>
	3,000 00

John J. Feneno, secretary, from September 10, 1906	938 45
Employees	376,536 81
	<hr/>
	\$393,294 71

Water pipes and other castings	52,061 40
--	-----------

Stable:

Hay, grain, straw	\$7,689 83
Vehicles and repairs	3,745 61
Horseshoeing, veterinary service, etc.	3,001 48
Horses, purchase of	1,575 00
Harnesses and repairs, etc.	1,416 14
	<hr/>
	17,428 06

Tools, machinery, and repairs of same, iron, steel, hardware and small supplies	11,888 53
---	-----------

Lead and lead pipe	9,710 03
------------------------------	----------

Meters:

New meters	\$6,920 50
Repairs and extra parts	752 97
	<hr/>
	7,673 47

Lumber	6,361 41
------------------	----------

Travelling expenses and transportation of employees	5,229 15
---	----------

Repairs and alterations of buildings, streets and structures,	4,973 58
---	----------

Blasting and excavating pipe trenches	4,683 98
---	----------

Printing	3,853 49
--------------------	----------

Fuel	2,445 96
----------------	----------

Telephones	1,671 95
----------------------	----------

Stationery, postage, etc.	1,352 59
-----------------------------------	----------

Rents	1,200 00
-----------------	----------

Ice for drinking fountains	1,126 48
--------------------------------------	----------

Teaming and freights	864 94
--------------------------------	--------

Salt	630 00
----------------	--------

Gravel and crushed stone	595 10
------------------------------------	--------

Cement and sand	566 28
---------------------------	--------

Oils	559 38
----------------	--------

Carried forward	<hr/>
	\$528,170 49

<i>Brought forward</i>	\$528,170 49
Gas	350 78
Bricks	296 60
Furniture	262 73
Taxes	256 50
Advertising	220 55
Professional and expert services	156 00
Waterproof clothing	124 65
Ice for office	84 60
Insurance	80 00
Salt hay	70 11
Commonwealth of Massachusetts for displacement of tide-water	59 24
Premium on surety bonds	45 00
Drain pipe	38 96
Recording papers	30 00
	<hr/>
	\$530,246 21
Damages	14,523 33
	<hr/>
	<u>\$544,769 54</u>

Details of expenditures under the appropriation for Extension of Mains, etc., for the fiscal year ending January 31, 1907. (From loan).

Employees	\$128,651 81
Water pipes and other castings	107,092 38
Blasting and excavating pipe trenches and laying water pipes	30,325 96
Lead and lead pipe	13,584 38
Teaming and freights	5,434 40
Repairs of streets and alterations, structures, etc.	5,353 42
Lumber	5,085 33
Tools, iron, steel and hardware	1,845 30
Transportation of employees	1,692 00
Gravel and crushed stone	927 03
Fuel	617 34
Oils	197 56
Bricks	192 40
Cement and sand	143 20
Waterproof clothing	29 40
Drain pipe	3 16
	<hr/>
	<u>\$301,175 07</u>

There was also expended by the Water Department, under an appropriation of \$5,000, from the Reserve Fund, for ice for drinking fountains (order of City Council, approved June 20, 1906):

Ice	\$4,927 52
Inspection	50 00
Advertising	22 48
	<hr/>
	<u>\$5,000 00</u>

COST OF CONSTRUCTION AND CONDITION OF THE WATER DEBT.

Cost of construction of Water Works to February 1, 1906	\$16,560,884 94
Cost of construction of Water Works to February 1, 1907	16,854,619 62
Increase during the year	<u>\$293,734 68</u>
Stock on hand February 1, 1906	\$112,537 72
Stock on hand February 1, 1907	141,160 93
Increase during the year	<u>\$28,623 21</u>
The outstanding Water Loans February 1, 1906, were	\$6,671,250 00
The outstanding Water Loans February 1, 1907, were	4,562,500 00
Decrease during the year	<u>\$2,108,750 00</u>
The Water Sinking-Fund February 1, 1906, was	\$5,943,222 39
The Water Sinking-Fund February 1, 1907, was	3,697,913 53
Decrease during the year	<u>\$2,245,308 86</u>
Net Water Debt February 1, 1906	\$728,027 61
Net Water Debt February 1, 1907	864,586 47
Increase during the year	<u>\$136,558 86</u>

The outstanding Water Loans on February 1, 1907, were as follows:

Loans.	Date of Maturity.	Amount.
6 per cent. Currency Loan, Due	April, 1907	\$4,000 00
6 " " " " " "	July, 1907	1,000 00
5 " " " " " "	Oct., 1907	1,000 00
5 " " " " " "	April, 1908	10,000 00
4 " " " " " "	July, 1909	67,000 00
4½ " " " " " "	Oct., 1909	268,000 00
4 " " " " " "	April, 1910	277,000 00
4 " " " " " "	April, 1912	324,000 00
4 " " " " " "	Oct., 1913	50,000 00
4 " " " " " "	Jan., 1914	459,000 00
4 " " " " " "	April, 1914	9,500 00
4 " " " " " "	Oct., 1914	10,000 00
4 " " " " " "	April, 1915	32,700 00
4 " " " " " "	Oct., 1915	17,000 00
4 " " " " " "	Jan., 1916	8,000 00
4 " " " " " "	April, 1916	18,500 00
4 " " " " " "	Oct., 1916	11,300 00
4 " " " " " "	Jan., 1917	8,000 00
3½ " " " " " "	April, 1917	275,000 00
4 " " " " " "	April, 1917	6,000 00
4 " " " " " "	Oct., 1917	158,700 00
4 " " " " " "	Jan., 1918	13,000 00

Carried forward \$2,028,700 00

Cochituate Water Sinking-Fund Receipts.

[SINCE THE ESTABLISHMENT OF THE BOARD OF SINKING-FUND COMMISSIONERS IN 1871.]

YEAR.	From Tax Levy of City Income.	Interest on Investments.	Interest on Bank Deposits.	Water Rates, etc.	Premiums on Loans.	Other Sources.	Totals.
1871. April 30, received from Committee on Reduction of Debt.....	\$1,100,000 00	.....	.....	.....	.....	.....	\$1,100,000 00
1871-72.....	14,325 00 Taxes, 9,375 00	\$61,000 00	\$349 67	.....	.....	.....	85,049 67
1872-73.....	9,000 00	70,137 50	1,017 80	.....	.....	.....	80,155 30
1873-74.....	30,090 60	76,799 60	2,072 65	.....	.....	.....	108,962 25
1874-75.....	75,973 28	82,842 25	2,121 13	.....	.....	.....	160,936 66
1875-76.....	65,554 00	85,470 00	3,617 55	.....	.....	\$386 00	155,027 55
1876-77.....	234,814 00	86,245 66	4,119 47	\$26,480 18	.....	915 46	352,574 77
1877-78.....	Taxes, 214,500 00	85,830 85	10,802 31	27,039 92	.....	.....	338,240 08
1878-79.....	Taxes, 207,456 00	93,264 49	6,181 26	177,195 91	.....	9,874 21	493,971 87
1879-80.....	.....	90,472 42	5,687 62	214,707 24	.....	4,411 64	315,278 92
1880-81.....	.....	86,460 00	167 32	195,608 90	.....	1,762 04	284,058 26
1881-82.....	.....	96,546 35	2,767 90	193,840 36	.....	494 08	293,648 69
1882-83.....	.....	105,129 51	8,486 33	219,581 72	.....	1,241 04	331,438 60
1883-84.....	Taxes, 973 00	138,120 90	2,268 22	.....	.....	.....	141,362 12
1884-85.....	.....	143,049 45	7,510 40	209,258 39	.....	.....	359,818 24
1885-86.....	.....	156,649 01	5,804 31	120,129 12	.....	442 27	283,069 71
1886-87.....	Taxes, 15,496 00	181,264 89	2,644 70	297,928 95	.....	5,081 12	562,415 66
Carried forward.....	\$2,037,556 28	\$1,639,327 28	\$65,625 64	\$1,681,890 69	.....	\$24,607 86	\$5,446,008 35

Cochituate Water Sinking-Fund Receipts. — *Concluded*

YEAR.	From Tax Levy of City Income.	Interest on Investments.	Interest on Bank Deposits.	Water Rates, etc.	Premiums on Loans	Other Sources.	Totals.
<i>Brought forward</i>	\$2,037,556 28	\$1,639,327 28	\$65,625 64	\$1,681,890 69	.....	\$24,607 86	\$5,446,008 35
1887-88.....	199,883 90	4,178 16	221,620 11	.....	.....	425,082 17
1888-89.....	213,048 22	8,958 69	256,013 57	\$11,552 50	.....	489,572 98
1889-90.....	223,000 83	11,730 60	300,903 00	36,092 50	.....	576,726 93
1890-91.....	229,509 17	29,763 94	242,675 22	36,530 00	.....	588,478 33
1891-92.....	175,808 33	22,560 16	275,014 05	.....	78,865 00	552,247 54
1892-93.....	260,506 20	30,148 34	240,435 00	16,413 50	.....	547,503 04
1893-94.....	298,224 44	18,133 63	299,467 27	14,621 75	.....	630,446 49
1894-95.....	312,332 05	18,524 22	297,518 29	.....	9,894 12	638,268 68
1895-96.....	378,819 55	5,892 29	205,791 00	64,690 00	.....	655,192 84
1896-97.....	403,840 02	5,225 08	194,740 00	.....	616 50	604,421 60
1897-98.....	421,928 45	8,337 21	193,395 00	8,833 50	15,877 86	648,372 02
1898-99.....	417,142 02	5,806 85	193,395 00	.....	8,016 00	624,359 87
1899-1900.....	383,662 97	7,632 45	209,824 00	29,835 70	2,148 90	633,104 02
1900-1901.....	397,985 35	15,948 83	206,489 00	.....	.....	620,423 18
1901-1902.....	325,030 96	31,199 25	.....	.....	* 609,000 00	965,230 21
1902-1903.....	313,707 65	37,297 28	.....	.....	.....	351,004 93
1903-1904.....	149,255 27	8,318 82	.....	.....	282 10	157,856 19
1904-1905.....	260,239 40	5,447 25	.....	.....	.....	265,786 65
1905-1906.....	242,176 39	13,015 36	.....	.....	.....	255,191 75
1906-1907.....	171,618 65	16,038 95	.....	.....	.....	187,657 60
	\$2,037,556 28	\$7,422,047 70	\$369,882 40	\$5,016,171 20	\$218,569 45	\$749,308 34	\$15,813,535 37

* Water Works Fund.

Cochituate Water Debt, Gross and Net.

At the Close of Each Fiscal Year.

FISCAL YEAR.	Gross Debt.	Sinking-funds.	Net Debt.
1847-48.....	\$2,129,056 32	.....	\$2,129,056 32
1848-49.....	3,787,328 98	.....	3,787,328 98
1849-50.....	4,463,205 56	.....	4,463,205 56
1850-51.....	4,955,613 51	.....	4,955,613 51
1851-52.....	5,209,223 26	.....	5,209,223 26
1852-53.....	5,972,976 11	.....	5,972,976 11
1853-54.....	5,432,261 11	.....	5,432,261 11
1854-55.....	5,403,961 11	.....	5,403,961 11
1855-56.....	5,230,961 11	.....	5,230,961 11
1856-57.....	5,031,961 11	.....	5,031,961 11
1857-58.....	4,724,961 11	.....	4,724,961 11
1858-59.....	4,754,461 11	.....	4,754,461 11
1859-60.....	3,846,211 11	.....	3,846,211 11
1860-61.....	3,455,211 11	.....	3,455,211 11
1861-62.....	3,012,711 11	.....	3,012,711 11
1862-63.....	2,992,711 11	.....	2,992,711 11
1863-64.....	2,992,711 11	.....	2,992,711 11
1864-65.....	2,942,711 11	.....	2,942,711 11
1865-66.....	3,152,711 11	.....	3,152,711 11
1866-67.....	3,370,711 11	.....	3,370,711 11
1867-68.....	3,867,711 11	.....	3,867,711 11
1868-69.....	5,107,711 11	.....	5,107,711 11
1869-70.....	5,731,711 11	.....	5,731,711 11
1870-71.....	6,482,711 11	\$1,100,000 00	5,382,711 11
1871-72.....	6,812,711 11	1,185,049 67	5,627,661 44
1872-73.....	6,912,711 11	1,268,234 97	5,644,476 14
1873-74.....	7,863,711 11	1,372,952 62	6,490,757 49
1874-75.....	8,123,711 11	1,533,890 28	6,589,820 83
1875-76.....	9,783,711 11	1,560,917 83	8,174,793 28
1876-77.....	11,548,711 11	1,709,492 60	9,839,218 51
1877-78.....	11,545,273 98	2,043,764 73	9,501,509 25
1878-79.....	11,753,273 98	2,143,847 85	9,609,426 18
1879-80.....	11,697,273 98	1,771,692 92	9,925,581 06
1880-81.....	11,631,273 98	1,989,300 88	9,641,973 10
1881-82.....	11,631,273 98	2,281,857 89	9,349,416 09
1882-83.....	11,955,273 98	2,607,768 46	9,347,505 52
1883-84.....	12,882,273 98	2,746,505 58	10,135,768 40
1884-85.....	13,045,473 98	3,106,323 82	9,939,150 16
1885-86.....	13,491,473 98	3,385,201 26	10,106,272 72
1886-87.....	14,142,273 98	3,947,616 92	10,194,657 06
1887-88.....	14,741,273 98	4,373,304 09	10,367,969 89
1888-89.....	14,941,273 98	4,864,092 54	10,077,181 44
1889-90.....	15,696,273 98	5,440,819 47	10,255,454 51
1890-91.....	16,267,773 98	5,979,297 80	10,288,476 18
1891-92.....	16,423,773 98	6,471,545 34	9,952,228 64
1892-93.....	16,758,773 98	7,019,058 38	9,739,715 60
1893-94.....	17,055,273 98	7,649,504 87	9,405,769 11
1894-95.....	17,761,273 98	8,444,773 55	9,316,500 43
1895-96.....	18,261,273 98	9,099,966 39	9,161,307 59
1896-97.....	18,261,273 98	9,704,387 99	8,556,885 99
1897-98.....	17,911,273 98	9,852,760 01	8,058,513 97
1898-99.....	17,121,273 98	9,487,119 88	7,634,154 10
1899-1900.....	17,306,273 98	9,870,223 90	7,436,050 08
1900-1901.....	11,960,273 98	10,144,647 08	1,815,626 90
1901-1902.....	11,351,917 28	10,422,449 77	929,467 51
1902-1903.....	9,501,000 00	8,893,615 94	607,384 06
1903-1904.....	8,227,000 00	7,337,902 79	889,097 21
1904-1905.....	8,224,000 00	7,600,659 44	623,310 56
1905-1906.....	6,671,250 00	5,943,222 39	728,027 61
1906-1907.....	4,562,500 00	3,697,913 53	864,586 47

¹No account taken of amounts borrowed temporarily from 1846 to 1852 and afterwards funded by the issue of water bonds that figure in this statement.

Contracts in Excess of \$1,000 Made and Pending during Year Commencing February 1, 1906, and ending January 31, 1907. — Concluded.

Contracts marked thus () are completed.*

DATE.	CONTRACTORS.	WORK.	AMOUNT.	PAID ON CONTRACT.		
				Previous Year.	Year 1906-1907.	Total.
1906.						
*June 29,	D. F. O'Connell.....	{ Excavating, lowering pipes, etc., into trench and refilling same in Rockford and Clifton streets, Roxbury..... }	{ 75 cents per linear foot..... }	.....	\$1,089 00	\$1,089 00
*July 25,	William H. Glenn.....	{ Trench work, etc., for relaying main in Saratoga street, East Boston, between Meridian and Brooks streets..... }	{ 75 cents per linear foot..... }	.....	1,256 00	1,256 00
*July 31,	John Merino.....	{ Trench work, etc., for laying pipes in Codman Park and Codman Hill st., Roxbury,..... }	{ 75 cents per linear foot of trench.. } { \$4 per cubic yard for blasting..... }	.....	1,559 13	1,559 13
*Aug. 15,	Suffolk Contracting Co..	{ Trench work, etc., for laying pipes in Saratoga street, East Boston..... }	{ 75 cents per linear foot of trench.. } { \$4 per cubic yard for blasting..... }	.....	1,860 10	1,860 10
*Aug. 29,	James L. Bryne & Co....	{ Laying line of 12-in. water pipe with hydrants, gates, etc., through Boston & Maine Railroad freight yard No. 19, near Rutherford avenue, Charlestown..... }	{ \$1 per linear foot of trench..... }	.....	6,777 62	6,777 62
Sept. 1,	Cahill Construction Co..	{ Water pipe trestle and fender guard, Fort Point channel at Congress street..... }	{ \$6,983 00..... }	.....	.....	.....
Oct. 18,	Trimount Construction Co.....	{ Trench work, etc., for laying pipes in Bremen street, between Putnam and Bennington streets, East Boston..... }	{ 75 cents per linear foot of trench.. } { \$4 per cubic yard for blasting..... }	.....	855 90	855 90
Nov. 6,	Suffolk Contracting Co..	{ Trench work, etc., for relaying pipes in Evans street, between Milton avenue and Capen street, Dorchester..... }	{ 75 cents per linear foot of pipe laid, } { \$4 per cubic yard for blasting..... }	.....	999 05	999 05

Nov. 10,	Bryne Contracting Co...	{ Laying line of 48-in. water pipe in Longwood avenue, Roxbury, between St. Alphonsus street and Brookline avenue	{ \$1.80 per linear foot for trench work and laying pipe..... \$5 per cubic yard for rock excava- tion 17 cents per linear foot for reset- ting edgestones, including all in- cidental..... 50 cents per square yard for repav- ing and resetting crosswalks, including all incidentals .....	.....	3,724 16	3,724 16
Nov. 21,	{ Warren Foundry and Machine Co.....	{ 242 tons 12-inch flexible-joint pipe..... 45 tons 4-inch flexible-joint pipe.....	{ \$38.40 per ton, 2,000 pounds..... 41.50 " .....	.....	.....	.....
Nov. 22,	Robert Eagar.....	{ Laying line of 48-inch water pipe in Prentiss and Parker streets and in Longwood ave- nue from Columbus avenue to St. Alphon- sus street.....	{ \$1.80 per linear foot for trench work and laying pipe..... \$5 per cubic yard for rock excava- tion 17 cents per linear foot for reset- ting edgestones, including all incidentals..... 50 cents per square yard for repav- ing and resetting crosswalks, including all incidentals.....	.....	.....	.....

REPORT OF INCOME DIVISION.

OFFICE OF GENERAL SUPERINTENDENT,

CITY HALL, BOSTON, February 1, 1907.

WILLIAM J. WELCH, ESQ.,

Water Commissioner :

DEAR SIR, — I submit herewith the annual report of the Income Division, Water Department. The report of the Meter Service Division covers the financial year ending January 31, 1907; the remainder of the report is rendered for the calendar year ending December 31, 1906 — it being impracticable, owing to the nature of our accounts, to render it for the financial year.

Respectfully submitted,

J. H. CALDWELL,

General Superintendent Income Division.

Table I.

Statement of Water Rates, January 31, 1907.

ACCOUNT OF YEAR.	Amount Assessed.	Amount Abated.	Amount Collected.	Balance Outstanding.
1894.....	\$2,163,625 70	\$51,619 69	\$2,112,006 01	.....
1895.....	2,226,519 08	55,510 53	2,211,008 55	.....
1896.....	2,568,246 04	* 95,162 39	2,473,083 65	.....
1897.....	2,630,413 37	58,864 09	2,576,549 28	.....
1898.....	2,342,804 58	† 235,414 43	2,107,390 15	.....
1899.....	2,414,731 72	† 258,449 66	2,156,282 06	.....
1900.....	2,197,026 64	46,873 45	2,150,153 19	.....
1901.....	2,264,845 26	46,713 28	2,218,131 98	.....
1902.....	2,327,926 31	43,706 89	2,283,986 22	\$233 20
1903.....	2,386,423 02	57,707 76	2,327,947 71	767 55
1904.....	2,391,723 51	38,290 92	2,352,303 09	1,129 50
1905.....	2,446,959 14	36,093 08	2,410,576 36	289 70
1906.....	2,522,862 85	19,092 83	2,463,785 85	39,984 17
1907.....	1,325,682 08	1,796 10	138,389 37	1,185,496 61

Above amounts for years 1894, 1895, 1896 and 1897 include both Cochituate and Mystic supply accounts. The contracts to supply Chelsea, Somerville and Everett with Mystic Water were abrogated by the Metropolitan Water Act of January 1, 1898.

*This amount includes certain city department accounts, abated by order of the Mayor.

†These amounts include abatements of city department accounts, under order of the City Council, approved by the Mayor on March 5, 1900, said order also abolishing all charges for water used by city departments.

Table II.*Number of Classified Water Takers during 1906.*

	Number.
By annual rates	95,085
By meter rates	5,407
City supplies of all kinds	9,343
Total	109,835

Table III.*Kind and Number of Fixtures in use December, 1906.*

	Number.
Bath-tubs	87,016
Bowls	124,024
Foot-tubs	327
Sinks	189,645
Taps	31,960
Urinals, automatic	4,867
“ otherwise	561
Wash-tubs	140,431
Water-closets	184,358
Total fixtures	763,189

Table IV.

Water at Annual Rates.

CLASSIFICATION.	Number.	Amount.
Armories.....	6	\$173 00
Bakeries.....	303	4,170 41
Bath-houses.....	1	17 00
Building purposes.....	902	6,929 58
Cemeteries.....	6	54 00
Churches.....	263	3,079 00
Clubs.....	205	3,165 60
Depots and stations.....	56	1,202 50
Dispensaries.....	13	222 00
Dwelling houses.....	53,023	785,025 89
Fountains.....	7	66 17
Freight houses.....	11	103 08
Greenhouses.....	56	848 83
Gymnasiums.....	2	51 50
Garages.....	9	132 00
Halls.....	129	1,970 66
Hand hose.....	9,050	45,250 00
Hospitals and asylums.....	117	5,270 00
Laboratories.....	2	79 50
Laundries.....	412	7,958 85
Libraries and museums.....	19	482 50
Manufactories.....	26	380 00
Model houses.....	15,148	311,573 11
Motors.....	10	65 00
Offices.....	1,608	13,939 57
Photographers.....	52	1,176 74
Police stations.....	3	45 00
Pool and bowling.....	88	1,171 34
Puddling trenches and paving.....	14	303 05
Razing buildings.....	6	66 00
Restaurants and lunch rooms.....	503	8,474 89
Saloons and bottling.....	396	18,827 40
Schools.....	74	1,443 00
Shops.....	3,252	29,551 88
Street watering.....	9	414 50
Shipping.....	13	87 19
Stables.....	3,054	20,951 66
Steam and gas engines.....	142	2,252 95
Steam crushers.....	2	51 00
Stores.....	6,089	69,273 00
Tanks.....	4	1,909 06
	95,085	\$1,350,188 41

Table V.

Water at Meter Rates.

CLASSIFICATION.	Number.	Quantity of Water Consumed. Cubic Feet.	Amount Assessed.
Armories	3	362,000	\$483 80
Bakeries	22	9,919,000	2,504 30
Bath-houses.....	9	879,000	1,158 90
Boarding houses.....	97	5,710,000	7,645 42
Bottling establishments.....	41	3,223,000	4,241 60
Breweries.....	22	23,813,000	27,886 60
Cemeteries	5	1,838,000	2,253 68
Chemicals.....	7	1,198,000	1,531 50
Clubhouses	52	10,626,000	13,408 38
Distilleries.....	5	2,493,000	3,068 50
Electrical companies.....	11	17,156,000	17,510 20
Elevators and motors.....	497	39,080,000	50,877 30
Factories.....	265	54,647,000	69,456 99
Fish houses	27	2,053,000	2,644 80
Garages	22	2,288,000	2,998 55
Gas works	11	12,035,000	13,935 00
Greenhouses	11	850,000	1,107 40
Halls	12	2,178,000	2,715 10
Hospitals.....	21	12,127,000	14,403 00
Hotels.....	131	87,444,000	107,506 42
Iron works.....	37	9,723,000	11,978 90
Laundries	66	20,806,000	25,857 64
Markets	2	108,000	149 40
Mills and engines	65	16,126,000	20,318 10
Model houses	1,251	87,666,000	117,663 40
Navy yard and barracks	4	27,385,000	23,838 15
Offices, stores and shops.....	1,731	213,410,000	260,951 98
Oil works.....	1	33,000	46 20
Pool and bowling.....	5	85,000	119 90
Public institutions.....	9	9,043,000	10,875 40
Saloons and restaurants.....	380	23,098,000	30,270 90
Schools	48	6,160,000	8,101 94
Slaughtering houses	4	1,814,000	2,234 00
Stables.....	344	16,185,000	22,840 70
Steam and street railways.....	47	219,119,000	201,310 27
Stone works.....	6	989,000	1,287 30
Sugar refineries	1	36,128,000	30,526 40
Tanneries	5	369,000	507 40
Theatres.....	22	3,811,000	4,913 50
Warehouses.....	23	8,107,000	10,172 70
Wharves and shipping.....	85	34,623,000	42,395 09
Totals	5,407	1,024,707,000	\$1,173,696 71

Table VI.*Number and Amounts of Abatements Allowed during the Year 1906.*

ON ACCOUNT OF ASSESSMENTS FOR YEAR.	Number.	Amount.
1899.....	1	\$130 50
1900.....	1	128 40
1901.....	1	231 60
1902.....		
1903.....	98	765 95
1904.....	156	1,274 33
1905.....	1,841	18,308 30
1906.....	2,462	19,166 13
Total.....	4,560	\$40,005 21

Table VII.*New Elevator, Motor and Service Pipes.*

Elevator pipes.....	18
Motor pipes.....	3
Fire pipes.....	34
Service pipes.....	1,203
Total.....	1,258

Table VIII.*Turning Water Off and On.*

For repairs of mains.....	701
For repairs of services.....	3,280
For non-payment of water bills.....	1,986
For waste.....	2
Turned on first time.....	1,162
Vacancies.....	2,799
Total	9,930

Table IX.*Off and On Receipts.*

Received for turning water off and on for repairs, deposited with City Collector.....	\$1,584 50
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Table X.ELEVATOR, MOTOR AND FIRE PIPE SERVICE, FOR THE YEAR ENDING
DECEMBER 31, 1906.*Elevators.*

Under supervision December 31, 1905	590	
Discontinued during the year	11	
Changed to electric	3	
	—	14
		576
New elevators inspected and accepted during the year		15
		—
Under supervision December 31, 1906		591
Changed to tank and metered water and still under supervision,		71
Inspections made		827
Accuracy tests made		665
Registering inaccurately and repaired by owners		69
Wasting water and repaired by owners		32
Clock, cord broken and repaired by owners		47
Clock, hands off, or glass broken and repaired by owners		15

Motors.

Under supervision December 31, 1905	122
Discontinued	3
Changed to electric	2
	<u>5</u>
New motors added to service during the year	117
	<u>3</u>
Under supervision December 31, 1906	120
Motors on meters	18
Inspections made	154
Measured	33
Tested	104
Registering inaccurately and repaired by owners	23
Not registering, repaired by owners	19
Wasting water and repaired by owners	11

Fire Service.

Premises under supervision December 31, 1905	517
Supervision discontinued	13
	<u>504</u>
Premises equipped during year	25
Premises under supervision December 31, 1906	529
Inspections of premises	3,741
Total number of inspections of outlet valves	39,419
Total number of hydrant inspections	989
Total number of valves sealed and resealed	3,942
Total number of hydrant valves sealed and resealed	156

By-passes.

Meter by-passes under supervision December 31, 1905	39
Discontinued	3
	<u>36</u>
By-passes additional	2
Under supervision December 31, 1906	38
Inspections made	278
Resealed	<u>26</u>

Table XI.

WASTE DETECTION.

Water Inspection.

Waste reports.....	15,709
First examinations.....	15,709
Second examinations.....	10,400
Third examinations.....	4,180
Fourth examinations.....	709
Fine notices issued.....	437

Table XII.*Defective Fixtures and Waste.*

Tank fixtures leaking.....	12,829
Faucets leaking	7,536
Bursts inside.....	330
Bursts outside.....	47
Hopper-cocks leaking.....	92
Water-closets leaking.....	747
Wilful waste.....	35

Table XIII.*Statement of Meters for Year ending January 31, 1907.*

Meters belonging to the department January 31, 1906	5,294
Purchases	162
	<hr/>
	5,456
Condemned during year	167
Stolen	3
Sold	1
	<hr/>
Belonging to the department January 31, 1907	5,285

Table XIV.*Distribution of Meters January 31, 1907.*

In service	5,084
At department shop	201
	<hr/>
	5,285

Table XV.

*General Statement of Work Performed on Meters during Year ending
January 31, 1907.*

	Meters.	Boxes.
Applied	345	44
Discontinued.....	247	.....
Changed.....	570	.....
Changed location.....	14	.....
Tested.....	1,769	.....
Repaired at shop.....	591	.....
Repaired at factory.....	87	.....
Repaired in service.....	313	237
Examined	215	.....
Abandoned.....	.....	15
Hayed.....	1,516	.....
Condemned.....	167	.....
Purchased.....	162	.....
Meters in service.....	5,084	.....
At department shop.....	201	.....
Private meters in service.....	53	.....
Sold.....	1	.....
Stolen.....	3	.....

Table XVI.
Meters Applied.

	DIAMETER IN INCHES.								Totals.
	6	4	3	2	1½	1	¾	⅝	
Crown.....	1	5	3	10	8	23	51	96	197
Worthington.....			2	1	3	2	7	5	20
Hersey.....	1	3	6	8	16	9	33	1	77
Metropolitan.....						1	8		9
Disc.....	1		1	1	8	4	7	10	32
Thomson.....								3	3
B. W. W.....							2		2
Nash.....								1	1
Lambert.....				1				1	2
Gem.....		1		1					2
Totals.....	3	9	12	22	35	39	108	117	345

Table XVII.
Meters Discontinued.

	DIAMETER IN INCHES.								Totals.
	6	4	3	2	1½	1	¾	⅝	
Worthington.....			2	7	5	10	15	1	40
Crown.....		3	4	1	2	11	21	77	119
Hersey.....		2	4	9	9	18	20	1	63
Metropolitan.....							18		18
B. W. W.....							3		3
Gem.....	1								1
Thomson.....								1	1
Empire.....						1			1
Nash.....								1	1
Totals.....	1	5	10	17	16	40	77	81	247

Table XVIII.
Meters Purchased.

	DIAMETER IN INCHES.								Totals.
	6	4	3	2	1½	1	¾	⅝	
Crown.....			3	19	8	6	25	.....	61
Disc.....	1		1	2	14	12	16	36	82
Hersey.....			1				18	.....	19
Totals.....	1		5	21	22	18	59	36	162

Table XIX.
Meters Repaired at Factory.

	DIAMETER IN INCHES.								Totals.
	6	4	3	2	1½	1	¾	⅝	
Crown.....		1	1		3	11	19	27	62
Hersey.....	1				4	3	4	.....	12
Lambert.....					1				1
Thomson.....				1	1	1	1	5	9
Nash.....						1	1	.....	2
Trident.....						1			1
Totals.....	1	1	1	1	9	17	25	32	87

Table XX.
Meters Condemned.

	DIAMETER IN INCHES.						Totals.
	3	2	1½	1	¾	⅝	
Crown.....						6	6
Worthington.....	2	7	3	38	36	1	87
B. W. W.....					2	.....	2
Metropolitan.....			1	12	59	.....	72
Totals.....	2	7	4	50	97	7	167

Table XXI.*Meters Repaired in Service.*

CAUSE OF REPAIRS.	Number.	CAUSE OF REPAIRS.	Number.
Clock broken.....	59	<i>Brought forward.....</i>	125
Glass broken.....	31	Leak at spindle.....	93
Spindle broken.....	1	Leak at coupling.....	66
Ratchet broken.....	8	Gear loose.....	11
Cover broken.....	24	Gear bound	3
Leak at body.....	2	Defaced.....	15
<i>Carried forward.....</i>	125	Total	313

Table XXII.*Meters Changed.*

CAUSE.	Number.	CAUSE.	Number.
For test.....	208	<i>Brought forward.....</i>	462
Rust.....	8	Did not mesh.....	13
Frost.....	14	Defaced	7
Gravel.....	19	Relocated.....	8
Solder	15	Spindle broken.....	7
Clock broken.....	32	Body leak.....	12
Heat	9	Hatchet broken.....	14
No force.....	37	Intermediate worn.....	7
Stoppage.....	28	Piston bound.....	11
Intermediate broken.....	50	Gear bound... ..	20
Gear broken	2	Shaft bound.....	2
Enlarged.....	40	Gear loose.....	9
<i>Carried forward.....</i>	462	Total	572

Table XXIII.*Meters in Service, January 31, 1907.*

	DIAMETER IN INCHES.								Totals.
	6	4	3	2	1½	1	¾	⅝	
Crown	11	48	58	106	174	396	503	1,211	2,507
Worthington.....	2	15	28	119	112	399	265	3	943
Hersey	8	15	39	132	169	269	384	17	1,033
Metropolitan.....				1	15	54	358	2	430
Disc	1		7	5	22	14	16	28	93
B. W. W.....							29		29
Lambert.....				2	3	2	4	4	13
Thomson.....							2	3	5
Empire.....					7	5	1		15
Gem.....		4		1					5
Nash.....			3		1	1	2	1	8
Trident.....						2			2
Torrent.....	1								1
Totals.....	22	82	136	366	503	1,142	1,564	1,269	5,084

Table XXIV.*Private Meters in Service, January 31, 1907.*

	DIAMETER IN INCHES.								Totals.
	6	4	3	2	1½	1	¾	⅝	
Crown.....	6	2	2	5	10	3	2	4	34
Worthington.....			2	5		3		2	12
Hersey		2	1	1					4
Gem.....	2								2
B. W. W.....							1		1
Totals.....	8	4	5	11	10	6	3	6	53

Table XXV.

Meters at Department Shop, January 31, 1907.

	DIAMETER IN INCHES.								Totals.
	6	4	3	2	1½	1	¾	⅜	
Worthington.....		4	3	16	6	34	5	3	71
Crown.....		1	4	2	4	4	8	38	61
Hersey.....			2	4	2	6	6	3	23
Metropolitan.....				2		1	7		10
Disc.....				2	5			8	15
B. W. W.....							1		1
Lambert.....								2	2
Thomson.....								3	3
Empire.....							1		1
Nash.....						1			1
Gem.....	2	1	4	1					8
Rogers.....							1		1
Ball & Fitts.....				1	1		1		3
Totals.....	2	6	14	28	17	46	30	58	201

Table XXVI.

Meters Belonging to Department, January 31, 1907.

Worthington, ½ inch .	6	Thomson, ⅝ inch .	6
“ ¾ “ .	270	“ ¾ “ .	2
“ 1 “ .	433		8
“ 1½ “ .	118	Gem, 2 “ .	2
“ 2 “ .	135	“ 3 “ .	4
“ 3 “ .	31	“ 4 “ .	5
“ 4 “ .	19	“ 6 “ .	2
“ 6 “ .	2		13
	1,014	Trident, 1 “ .	2
Crown, ⅝ “ .	1,249	Empire, ¾ “ .	2
“ ¾ “ .	511	“ 1 “ .	5
“ 1 “ .	400	“ 1½ “ .	7
“ 1½ “ .	178		14
“ 2 “ .	108	Nash, ⅝ “ .	2
“ 3 “ .	62	“ ¾ “ .	2
“ 4 “ .	49	“ 1 “ .	2
“ 6 “ .	11	“ 1½ “ .	1
	2,568	“ 3 “ .	3
Hersey, ⅝ “ .	20		10
“ ¾ “ .	590	Disc, ⅝ “ .	36
“ 1 “ .	275	“ ¾ “ .	16
“ 1½ “ .	171	“ 1 “ .	14
“ 2 “ .	136	“ 1½ “ .	27
“ 3 “ .	41	“ 2 “ .	7
“ 4 “ .	15	“ 3 “ .	7
“ 6 “ .	8	“ 6 “ .	1
	1,056		108
Metropolitan, ⅝ “ .	2	Ball & Fitts, ¾ “ .	1
“ ¾ “ .	365	“ 2 “ .	1
“ 1 “ .	55	“ 3 “ .	1
“ 1½ “ .	15		3
“ 2 “ .	3	Torrent, 6 “ .	1
	440	Rogers, ¾ “ .	1
B. W. W., ¾ “ .	30		
Lambert, ⅝ “ .	6		5,285
“ ¾ “ .	4		
“ 1 “ .	2		
“ 1½ “ .	3		
“ 2 “ .	2		
	17		

REPORT OF THE DISTRIBUTION DIVISION.

OFFICE OF THE ASSISTANT COMMISSIONER,
710 ALBANY STREET, February 1, 1907.

WILLIAM J. WELCH, ESQ.,
Water Commissioner:

SIR,—I herewith submit in tabular form the annual report of the Distribution Division for the year ending January 31, 1907.

Respectfully,

JAMES P. LENNON,
Assistant Commissioner in Charge.

NEW MAINS LAID.

Statement of Location, Size, Nominal Pressure, and Number of Feet Laid during the Year Ending January 31, 1907.

NOTE.—C. P. indicates City Proper; Rox., Roxbury; W. R., West Roxbury; Bri., Brighton; Dor., Dorchester; S. B., South Boston; E. B., East Boston; Chsn., Charlestown; B. H., Boston Harbor; Som., Somerville.

LOCATION.		District.	Size.	Nominal Pressure.	Number of Feet.
Prentiss st.....	Across Columbus ave.....	Rox.	48-in.	L.	96
Longwood ave.....	Between Huntington ave. and Vila st..	"	"	L.	1,462
	Total 48-inch.....				1,558
Congress st	Between Sleeper st. and drawbridge...	S. B.	24-in.	L.	185
Sleeper st.....	At Congress st.....	"	"	L.	41
	Total 24-inch.....				226
Dudley ave.....	Between South and South Fairview sts.	W. R.	16-in.	H.	270
Congress st.....	" A and Sleeper sts.....	S. B.	"	L.	392
	Total 16-inch.....				662

New Mains Laid. — *Continued.*

LOCATION.		District.	Size.	Nominal Pressure.	Number of Feet.
Waltham st.....	Bet. Harrison ave. and Union Park st..	C. P.	12-in.	L.	82
Beach st.....	“ Kingston and Utica sts.....	“	“	H.	160
Washington st....	At Boylston st.....	“	“	H.	17
“	Between Summer and Water sts.....	“	“	L.	1,014
“	“ Bedford and Avon sts.....	“	“	L.	185
Hanover st.....	At Blackstone st. (connection between 24-inch and 12-inch).....	“	“	L.	10
“	At Union st. (connection between 24-inch and 12-inch).....	“	“	L.	8
Portland st.....	Between Traverse and Canseway sts...	“	“	H.	90
Leon st.....	“ Ruggles and Greenleaf sts....	Rox.	“	L.	205
Vancouver st.....	“ Huntington ave. and Ward st.	“	“	L.	330
Greenleaf st.....	“ Huntington ave. and Leon st..	“	“	L.	25
Leon st.....	“ Greenleaf and Ruggles sts....	“	“	L.	65
Vancouver st.....	“ Huntington ave. and Ward st.	“	“	L.	189
South Bay ave....	East from Board of Survey st. No. 713..	“	“	L.	150
Beech st.....	Between Washington and Linden sts..	W. R.	“	H.	400
Gardner st.....	Near Ashumet st.....	“	“	H.	352
La Grange st.....	Between Swallow and Martin sts.....	“	“	H.	706
Poplar st.....	“ Dale and Beech sts.....	“	“	H.	168
Williams st.....	“ Plainfield and Forest Hills sts.	“	“	H.	579
Commonwealth ave	At Allston st.....	Bri.	“	L.	8
Wellington Hill st..	West from Duke st.....	Dor.	“	H.	146
Mt. Vernon st....	Between Carson st. and Calf Pasture..	“	“	L.	4,048
Randolph road....	“ River and Hollingsworth st...	“	“	H.	669
Rosewood st.....	At Randolph road.....	“	“	H.	3
Wormwood st.....	Between A st. and R.R. tracks.....	S. B.	“	L.	465
Private way.....	At Wormwood st.....	“	“	L.	13
Sleeper st.....	“ Congress st.....	“	“	L.	30
Stillings st.....	“ “	“	“	L.	35
Fargo st.....	Between B and C sts	“	“	L.	548
Binford st.....	Near A st.....	“	“	L.	28
Orleans st.....	Between Neptune road and Prescott st.	E. B.	“	L.	35
Frankfort st.....	“ Maverick and Gove sts... ..	“	“	L.	216
Orleans st.....	“ Gove and Porter sts.....	“	“	L.	75
Boardman st.....	From Ford st.....	“	“	L.	335
<i>Carried forward.....</i>		.....	.....	.....	11,389

New Mains Laid. — *Continued.*

LOCATION.		District.	Size.	Nominal Pressure.	Number of Feet.
	<i>Brought forward</i>.....	.....	.....	.....	11,389
B. & M. R.R., Ruth- erford ave. yard..	Between Austin and Spice sts.....	Chsn.	12-in.	L.	3,640
Spice st.....	" Cambridge st. and R.R. tracks,	"	"	L.	27
Driveway between Freight Houses 26 and 27 in B. & M. R.R. Ruth- erford ave. yard...	Bet. Rutherford ave. and R.R. tracks..	"	"	L.	683
Driveway between Freight Houses 36 and 37 in B. & M. R.R. Ruth- erford ave. yard...	" " " ..	"	"	L.	788
	Total 12-inch.....	.....	.....	.....	<u>16,527</u>
Rose st.....	Between Albany st. and Harrison ave.	C. P.	10-in.	L.	518
Knox st.....	" Ferdinand and Church sts....	"	"	L.	415
Lansdowne st.....	" Massachusetts ave. and Aller- ton st.....	Rox.	"	L.	125
Allerton st.....	From Lansdowne st.....	"	"	L.	125
Fort ave.....	Opposite Standpipe, near Highland Park st.....	"	"	H.	20
Mountfort st.....	Bet. Audubon rd. and St. Mary's st.	"	"	L.	84
South Fairview st..	From Dudley ave.....	W. R.	"	H.	392
Unnamed st. (will probably be called Quail st.),	Off Cottage ave.....	"	"	H.	722
Prince st.....	Between Centre and Pond sts.....	"	"	H.	895
South Fairview st..	From Dudley ave.....	"	"	H.	55
Halliday st.....	Between Bourne st. and Neponset ave.	"	"	H.	108
"	At Neponset ave.....	"	"	H.	110
Champney st.....	At Hunnewell ave.....	Bri.	"	H.	7
Hunnewell ave....	From Champney st.....	"	"	H.	179
Wellington rd.....	Between Corey rd. and Board of Sur- vey st. No. 868.....	"	"	H.	258
Johnston rd.....	Off Blue Hill ave.....	Dor.	"	H.	120
Bay st.....	Between Dorchester ave. and Auck- land st.....	"	"	L.	286
"	" Auckland and Maryland sts..	"	"	L.	56
Almont st.....	Off Walk Hill st.....	"	"	H.	1,540
Alabama st.....	At Almont st.....	"	"	H.	3
Bay st.....	Between Auckland and Maryland sts..	"	"	L.	92
	Total, 10-inch.....	.....	.....	.....	<u>6,110</u>

New Mains Laid. — *Continued.*

LOCATION.		District.	Size.	Nominal Pressure.	Number of Feet.
Wilkes st.....	Bet. Washington and Bradford sts.....	C. P.	8-in.	L.	81
Medfield st.....	" Audubon rd. and St. Mary's st...	Rox.	"	L.	420
St. Mary st.....	At Medfield st.....	"	"	L.	14
Ruggles st.....	Between Westminster st. and Shawmut ave.....	"	"	L.	235
Priesing st.....	" Chestnut ave. and Mozart st..	"	"	H.	533
Estrella st.....	" Centre and Priesing sts.....	"	"	H.	334
Ruggles st.....	At Shawmut ave. (west side).....	"	"	L.	18
Asticou rd.....	Between South and Walk Hill sts.....	W. R.	"	H.	204
Irving st.....	From Pelton st.....	"	"	H.	332
Ashland st.....	Between Sutton and Harvard sts.....	"	"	H.	285
Williams st.....	" Plainfield and Forest Hills sts.	"	"	H.	8
Verona st.....	" Child st. and Carolina ave....	"	"	H.	364
Kilsyth rd.....	" Colliston and Lanark rds.....	Bri.	"	H.	238
Empire st.....	" Cambridge and North Harvard sts.....	"	"	L.	230
Champney st.....	" Stratton st. and Hunnewell ave.....	"	"	H.	407
Hoyt st.....	Off Dorchester ave.....	Dor.	"	L.	221
Vaughan st.....	Bet. Blue Hill ave. and Harvard st....	"	"	H.	110
Woodland ave.....	" Castle Rock st. and Rockland ave..	"	"	H.	232
Castle Rock st.....	At Woodland ave.....	"	"	H.	27
Rockland ave.....	" "	"	"	H.	75
Wellington road (south side).....	Off Magnolia st.....	"	"	H.	108
Wellington road (north side).....	" "	"	"	H.	15
Halborn st.....	" West Selden st.....	"	"	H.	119
Norton st.....	Between Bowdoin and Richfield sts....	"	"	H.	100
Ceylon st.....	" Columbia rd. and Quincy st..	"	"	H.	692
Brenton st.....	" Glenway and Greenwood sts..	"	"	H.	134
Greenwood st.....	" Brenton and Roxton sts.....	"	"	H.	111
Prairie st.....	At Almont st.....	"	"	H.	3
Mattapan st.....	" "	"	"	H.	3
Colorado st.....	From Almont st.....	"	"	H.	287
Itasca st.....	At Almont st.....	"	"	H.	8
Prescott pl.....	From Church st.....	"	"	H.	205
Rockdale st.....	At Randolph rd.....	"	"	H.	3
<i>Carried forward</i>					6,156

New Mains Laid. — *Continued.*

LOCATION.		District.	Size.	Nominal Pressure.	Number of Feet.
	<i>Brought forward</i>				6,156
Norton st.....	Between Bowdoin and Richfield sts....	Dor.	8-in.	H.	355
Margaret st.....	" Bowdoin and Norton sts.....	"	"	H.	228
Downer ave.....	" DeWolf and Pleasant sts.....	"	"	H.	85
Chelmsford st.....	Off Adams st.	"	"	H.	514
Fifield st.....	Between Church and Winter sts.....	"	"	H.	215
Browning ave.....	Off Bernard st.....	"	"	H.	126
Savin Hill rd.....	" Russ ter.....	"	"	H.	454
Saranac st.....	Between Adams and Minot sts.....	"	"	H.	230
Power st.....	" Dorchester ave. and Boston st.	S.B.	"	L.	305
Wormwood st.....	" A st. and railroad tracks.....	"	"	L.	16
"	At A st.....	"	"	L.	17
Foundry st.....	Between Fourth and Division sts.....	"	"	H.	320
Cypher st.....	" B and C sts.....	"	"	L.	552
Farnsworth st.....	At Congress st.....	"	"	L.	24
Winfield st.	Between Seventh and Eighth sts.....	"	"	L.	299
Gladstone st.....	" Orienta pl. and Tower st.....	E.B.	"	L.	81
Frankfort st.....	" Bennington st. and Neptune rd.	"	"	L.	352
Shrimpton st.....	" Prescott and Putnam sts... ..	"	"	L.	166
	Total, 8-inch.....				<u>10,495</u>
Hanover st.....	Between Blackstone and Union sts....	C. P.	6-in.	L.	165
Crowley st.....	" Francis st. and Fenwood rd..	Rox.	"	L.	37
Sussex st.....	At Warwick st.....	"	"	L.	96
Otis pl.	Off Norfolk st	W.R.	"	H.	36
Perkins st.....	" Canterbury st.....	"	"	H.	144
Russ ter.....	" Savin Hill ave.....	Dor.	"	L.	202
Norton st.....	Between Bowdoin and Stonehurst sts..	"	"	H.	105
"	" Stonehurst and Speedwell sts.	"	"	H.	75
Muzzy st.....	At King st.....	"	"	H.	14
Woodward pk.....	Between Howard ave. and Folsom st..	"	"	H.	130
Claybourne st.....	" Dakota and Tonawanda sts...	"	"	H.	31
Mt. Vernon st.. ...	2,005 feet from 12-inch gate at Carson st. connection, between 12-inch and 6-inch lines.....	"	"	L.	12
"	At entrance to Calf Pasture connection between 10-inch and 6-inch lines.....	"	"	L.	8
	<i>Carried forward</i>				<u>1,055</u>

New Mains Laid. — *Concluded.*

LOCATION.		District.	Size.	Nominal Pressure.	Number of Feet.
	<i>Brought forward</i>.....	.....	.....	.....	1,055
Glover pl.....	Off Highland st.....	Dor.	6-in.	H.	141
Whitfield st.....	Between Talbot and Northern aves....	"	"	H.	36
Congress st.....	" Sleeper st. and drawbridge...	S. B.	"	L.	78
Across Columbia rd.	Opposite P st.....	"	"	L.	102
Columbia rd. (in sidewalk)	Between P and Seventh sts.....	"	"	L.	296
Fourth st.....	" L and M sts.....	"	"	H.	121
Hatch st.....	" Eighth and Ninth sts.....	"	"	L.	302
Webster ave.....	" Sumner and Webster sts.....	E. B.	"	L.	307
	Total, 6-inch.....	.....	.....	.....	2,438
Boston Harbor	Between Long and Rainsford Islands..	B. H.	2-in.	H.	3,264

OLD MAINS RELAID.

Statement of Location, Size, Nominal Pressure, Number of Feet Laid and Size of Mains Abandoned During the Year Ending January 31, 1907.

LOCATION.		District.	Size.	Nominal Pressure.	Number of Feet.	Size Abandoned.
Traverse street.....	At Haverhill street.....	C. P.	30-in.	L.	5	30-in.
Tremont street.....	" Massachusetts avenue.....	"	"	L.	48	"
"	Between Kendall and Coventry sts. {	C. P. Rox.	"	L.	520	"
	Total, 30-inch				573	
Washington street....	Between State st. and Adams sq....	C. P.	24-in.	L.	273	24-in.
Washington st. North.	At Stillman street.....	"	20-in.	L.	10	20-in.
Medford street.....	" Chelsea street	Chsn.	"	L.	4	"
	Total, 20-inch.....				14	
* Dover street	Bet. Washington and Albany sts....	C. P.	16-in.	H.	365	12-in.
Boylston street.....	" Washington st. and Bumstead et.	"	"	H.	80	8-in.
Washington street....	" Essex and Bedford streets	"	"	H.	568	12-in.
"	" Bedford and Avon streets.....	"	"	H.	50	12-in.
"	" Franklin and Water streets.....	"	"	H.	585	8 & 12-in.
Hanover street... ..	" N. Bennet and Parmenter sts....	"	"	L.	400	16-in.
Congress street.....	" A st. and Congress-st. bridge....	S. B.	"	L.	567	12-in.
Chelsea street.....	At Medford street.....	Chsn.	"	L.	10	16-in.
	Total, 16-inch				2,625	
Harrison avenue.....	Between E. Dedham and Malden sts.	C. P.	12-in.	L.	335	12-in.
"	" Union Park and Savoy sts.	"	"	L.	300	"
Union street.....	Bet. Washington and Hanover sts...	"	"	L.	285	8-in.
Endicott street.....	At Hanover street.....	"	"	L.	10	12-in.
Hanover street.....	" Union street.....	"	"	L.	6	"
Congress street.....	Between Milk and Franklin streets..	"	"	L.	173	8-in.
Chandler street.....	At Columbus avenue.....	"	"	L.	65	6-in.
Clarendon street.....	" "	"	"	L.	30	"
West Canton street....	" " (east side).....	"	"	L.	25	"
Appleton street.....	" "	"	"	L.	100	"
	Carried forward.....				1,329	

* Dead.

Old Mains Relaid.— *Continued.*

LOCATION.		District.	Size.	Nominal Pressure.	Number of Feet.	Size Abandoned.
<i>Brought forward</i>					1,329	
Clarendon street.....	Bet. Tremont st. and Warren ave....	C. P.	12-in.	L.	380	6-in.
Washington street....	" State street and Cornhill.....	"	"	H.	249	"
Cedar street.....	At Centre street.....	Rox.	"	H.	52	"
Fort avenue.....	" "	"	"	H.	44	"
Eustis street	Bet. Albany and Winslow streets....	"	"	L.	175	"
Greenleaf street.....	" Huntington ave. and Leon st....	"	"	L.	398	"
Leon street.....	" Greenleaf and Ruggles streets..	"	"	L.	75	8-in.
"	" " " " " ..	"	"	L.	572	6 & 8-in.
Clifton street.....	" Shirley and Rockford streets....	Dor.	"	L.	230	6-in.
Shirley street	Across Clifton street.....	"	"	L.	42	"
Dudley street.....	At Rockford street.....	"	"	L.	10	12-in.
Sixth street.....	Across K street	S. B.	"	L.	80	6-in.
Congress street.....	Near Freight House No. 7.....	"	"	L.	8	12-in.
"	At Stillings street.....	"	"	L.	8	"
Binford street.....	" A street	"	"	L.	52	8-in.
Spice street.....	Between Cambridge street and rail-road tracks.....	Chsn.	"	L.	460	6-in.
Total, 12-inch.....					<u>4,164</u>	
Hayward place.....	At Washington street.....	C. P.	10-in.	H.	4	10-in.
Providence street.....	Between Park sq. and Church st....	"	"	L.	234	6-in.
Holyoke street.....	At Columbus avenue.....	"	"	L.	61	"
Yarmouth street.....	" "	"	"	L.	60	"
West Canton street....	" " (east side)	"	"	L.	49	"
Concord square.....	" "	"	"	L.	24	"
Rutland square.....	" " (west side).....	"	"	L.	57	"
Massachusetts avenue (north side).....	" east side of Columbus avenue....	"	"	L.	28	"
Parmenter street.....	" Hanover street.....	"	"	L.	28	"
Richmond street.....	" "	"	"	L.	45	8-in.
Bay street.....	Bet. Auckland and Maryland sts....	Dor.	"	L.	137	12-in.
Evans street... ..	" Milton avenue and Capen st....	"	"	H.	1,096	6-in.
Savin Hill avenue.....	" Evandale ter. and Denny st....	"	"	H.	933	"
Russ terrace.....	Off Savin Hill avenue.....	"	"	H.	114	"
K street	Between Fourth and Sixth streets...	S. B.	"	L.	643	"
<i>Carried forward</i>					<u>3,513</u>	

Old Mains Relaid. — *Concluded.*

LOCATION.		District.	Size.	Nominal Pressure.	Number of Feet.	Size Abandoned.
	<i>Brought forward</i>				3,513	
Fifth street.....	Across K street.....	S. B.	10-in.	L.	77	6-in.
Bremen street.....	Bet. Saratoga st. and Glendon pl....	E. B.	"	L.	338	"
Pope street.....	Across Curtis street.....	"	"	L.	62	"
Bremen street.....	Bet. Bennington and Putnam sts....	"	"	L.	1,185	"
	Total 10-inch.....				<u>5,175</u>	
* Harrison avenue....	At north side of Dover street.....	C. P.	8-in.	H.	2	8-in.
Rollins street.....	" Harrison avenue.....	"	"	L.	20	6-in.
Avery street.....	" Washington street.....	"	"	H.	4	8-in.
Park square.....	Between Boylston and Eliot sts....	"	"	L.	287	4-in.
Florence street.....	Bet. Washington st. & Harrison ave..	"	"	L.	349	"
Wilkes street.....	" Washington and Bradford sts...	"	"	L.	235	"
Lynn street.....	" Cooper and Thacher streets....	"	"	L.	323	4 & 6-in.
Berwick park.....	At Columbus avenue.....	"	"	L.	65	6-in.
Buckingham street...	" ".....	"	"	L.	73	"
West Canton street...	" west side of Columbus avenue...	"	"	L.	60	"
Massachusetts avenue (south side).....	" east side of Columbus avenue....	"	"	L.	35	"
Codman park.....	From Townsend street.....	Rox.	"	H.	680	4-in.
Codman Hill street...	Bet. Codman pk. and Washington st.	"	"	H.	290	"
Birch street.....	Near Penfield st., at Stony brook...	W. R.	"	H.	36	8 & 12-in.
Vaughan street.....	Bet. Blue Hill ave. and Harvard st..	Dor.	"	H.	20	8-in.
Maryland street.....	" Bay st. and Savin Hill avenue..	"	"	L.	110	6-in.
Thetford avenue.....	At Evans street.....	"	"	H.	31	"
Stanton street.....	" ".....	"	"	H.	30	"
Dyer street.....	" ".....	"	"	H.	32	"
Wormwood street....	" Private way.....	S. B.	"	L.	5	8-in.
".....	" A street.....	"	"	L.	10	"
Beckler avenue.....	" K street.....	"	"	L.	36	6-in.
Gladstone street.....	From Orienta place.....	E. B.	"	L.	14	8-in.
Saratoga street.....	Between Meridian and Shelby sts...	"	"	L.	3,550	6-in.
	Total 8-inch.....				<u>6,297</u>	

* Dead.

Old Mains Relaid. — *Concluded.*

LOCATION.		District.	Size.	Nominal Pressure.	Number of Feet.	Size Abandoned.
Chickering place.....	At Washington street.....	C. P.	6-in.	H.	4	6-in.
Marshall street.....	“ “	“	“	L.	7	“
Bay street.....	From Fayette street.....	“	“	L.	113	4-in.
Thacher street	At North Margin street.....	“	“	L.	8	6-in.
Thacher court.....	From Thacher street.....	“	“	L.	165	4-in.
Mechanic street.....	At Hanover street.....	“	“	L.	5	“
Cedar street.....	“ Centre street.....	Rox.	“	H.	6	6-in.
Silver street.....	Bet. A and B sts., over R.R. bridge..	S. B.	“	L.	35	“
Mishawum street.....	At Main street.....	Chsn.	“	L.	40	16 & 4-in.
Total 6-inch .....		.....	.....	.....	384	

MAINS RELOCATED.

Statement of Location, Size, Nominal Pressure, Number of Feet Laid During the Year Ending January 31, 1907.
Size of Main before Relocation, and Explanatory Remarks.

LOCATION.		District.	Size.	Nominal Pressure.	Number of Feet.	Size before Relocation.	Remarks.
Essex street (south side)	Between Washington st. and Hersey pl.	C.P.	36-in.	L.	100	{ 20 and 16-in. }	On account of subway.
Washington street	" Boylston and Essex streets.	"	30-in.	L.	85	24-in.	" " (flanged pipes).
Haverhill street.	" Traverse street and Washington street North	"	"	L.	490	{ 24 and 20-in. }	"
Stillman street.	" Washington street North and Endicott street.	"	"	L.	226	{ 24 and 20-in. }	"
Endicott street.	" Stillman and Cross streets.	"	"	L.	180	{ 24 and 20-in. }	"
	Total, 30-inch.				981		
Endicott street.	Between Cross and Hanover streets	C.P.	24-in.	L.	491	{ 24 and 20-in. }	On account of subway.
Hanover street.	" Endicott and Union streets.	"	"	L.	235	24-in.	"
Adams square.	" Washington and Devonshire sts.	"	"	L.	91	"	"
Broadway	" Cross and Glen streets.	Som.	"	L.	385	"	{ Lowered and moved on account of street changes.
	Total, 24-inch.				1,202		
Chelsea street	Between Vine and Bunker Hill streets.	Chsn.	20-in.	L.	25	20-in.	Raised on account of sewer.

Bedford street.....	At Washington street.....	C. P.	16-in.	L.	25	16-in.	On account of subway.
Ilanover street.....	" Endicott street.....	"	"	L.	18	24-in.	" " new 24-inch line.
Merrimac street.....	Between Canal and Washington streets.....	"	"	L.	14	"	" " subway.
Shawmut avenue.....	Across Ruggles street.....	Rox.	"	L.	46	16-in.	Raised on account of sewer.
Mt. Washington avenue....	At A street.....	S. B.	"	L.	20	"	"
Maverick street.....	Between Chelsea and Frankfort streets.....	E. B.	"	L.	451	12-in.	On account of grade crossing abolishment.
"	" Bremen and Orleans streets.....	"	"	L.	60	"	On account of grade crossing abolishment.
Prescott street.....	" "	"	"	L.	198	"	On account of grade crossing abolishment.
	Total 16-inch				<u>832</u>		
Essex street.....	Between Washington street and Hersey pl..	C. P.	12-in.	H.	52	8-in.	On account of subway.
Avon street.....	At Washington street.....	"	"	L.	30	{ 12 and 10-in. }	"
Bedford street.....	" "	"	"	L.	18	16-in.	"
Canal street.....	Between Traverse and Market streets	"	"	L.	385	"	" and sewer.
"	Opposite No. 74	"	"	H.	18	12-in.	Offset around sewer manhole.
Traverse street.....	At Canal street.....	"	"	L.	12	6-in.	On account of sewer and subway.
Union street.....	" Washington street.....	"	"	L.	50	8-in.	" " subway.
Franklin street.....	" "	"	"	L.	35	12-in.	" " "
Milk street.....	" "	"	"	L.	28	16-in.	" " "
Water street..	" "	"	"	L.	35	12-in.	" " "
North street.....	" North square.....	"	"	L.	20	"	Lowered on account of gas main.
Traverse street.....	Across Haverhill street.....	"	"	L.	20	"	Lowered on account of new 30-in. line.
	Carried forward.....				<u>703</u>		

Mains Relocated. — Continued.

LOCATION.	District.	Size.	Nominal Pressure.	Number of Feet.	Size before Relocation.	Remarks.
<i>Brought forward</i>.....	.....	.....	.....	703		
Haverhill street.....	C. P.	12-in.	L.	16	12-in.	Offset on account of new 30-in. line.
Washington street North...	"	"	L.	8	"	" " "
Stillman street.....	"	"	L.	10	"	" " "
Cross street.....	"	"	L.	17	"	Lowered on account of new 24-in. line.
Blackstone street.....	"	"	L.	20	"	Raised on account of new 24-in. line.
Union street.....	"	"	L.	45	{ 12 and } 8-in.	On account of 24-in. line.
Washington street.....	"	"	H.	25	12-in.	On account of subway.
Boylston street.....	"	"	L.	52	"	"
Washington street.....	"	"	L.	69	"	Raised on account of subway.
"	"	"	L.	32	"	On account of subway.
Essex street.....	"	"	L.	19	8-in.	"
Union street.....	"	"	L.	35	12-in.	"
Summer street.....	"	"	H.	42	"	"
"	"	"	L.	92	"	"
Canal street.....	"	"	L.	82	16-in.	"
Merrimac street.....	"	"	L.	8	12-in.	"

[illegible]

Mains Relocated. — Continued.

LOCATION.	District.	Size.	Nominal Pressure.	Number of Feet.	Size before Relocation.	Remarks.
<i>Brought forward</i>.....	.....	.....	.....	3,648	.....	.....
Penfield street.....	W. R.	12-in.	H.	15	12-in.	On account of sewer.
Corey street	"	"	H.	12	"	Offset around old well.
Rockford street.....	Dor.	"	L.	620	{ 3 and } 6-inch. }	On account of sewer.
Nelson street	"	"	H.	90	12-in.	Lowered.
Stillings street.....	S. B.	"	L.	8	"	Raised on account of sewer.
Granite street	"	"	L.	24	"	"
Farnsworth street.....	"	"	L.	14	"	" 16-inch line.
Stillings street.....	"	"	L.	10	"	Changing connections from 12 to 16-inch line.
Bennington street.....	E. B.	"	L.	301	"	On account of abolishment of grade crossings.
Maverick street.....	"	"	L.	110	"	On account of abolishment of grade crossings.
Sumner street	"	"	L.	9	"	Raised on account of sewer.
Curtis street	"	"	L.	407	8-in.	On account of abolishment of grade crossings.
"	"	"	L.	83	"	On account of abolishment of grade crossings.

Orleans street	"	Everett and Gove streets.....	"	L.	444	"	On account of abolishment of grade crossings.
		Total 12-inch .....		.....	5,795		
Columbus ave. (east side) ..		At Prentiss street.....	Rox.	L.	15	10-in.	Raised on account of 48-inch line.
Prentiss street.....		" Columbus avenue.....	"	L.	20	"	Offset on account of 48-inch line.
Penfield street.....		Between Linden and Amherst street.....	W. R.	H.	110	12-in.	On account of new street lines and grades.
Webster street.....		At Lewis street.....	E. B.	L.	16	10-in.	On account of National Dock and Warehouse Co.'s tracks.
Bremen street.....		" Saratoga street.....	"	L.	100	12-in.	On account of grade crossing abolishment.
"		Between Maverick and Gove streets.....	"	L.	220	10-in.	On account of grade crossing abolishment.
		Total 10-inch .....		.....	481		
Central street.....		At Atlantic avenue.....	C. P.	L.	14	8-in.	Offset on account of sewer manhole.
Harrison avenue.....		" Rose street	"	H.	8	"	Lowered under new 10-inch main.
Market street.....		" Canal street.....	"	L.	14	6-in.	Offset on account of sewer.
Prince street.....		Between Hanover st. and Garden-court st..	"	L.	110	8-in.	Moved on account of gas company.
North square.....		At North street, opposite No. 33.....	"	L.	18	"	Offset on account of sewer.
Washington street.....		Between No. 342 and No. 348.....	"	H.	20	"	Offset around manhole on account of subway.
Merrimac street.....		" Canal and Washington streets.....	"	L.	22	{ 8 and } 12 inch.	Mains rearranged on account of sub-way.
Auburn street.....		At Ruggles street.....	Rox.	L.	8	6-in.	On account of sewer.
Grove street.....		Near German street.....	W. R.	H.	12	8-in.	Offset on account of sewers.
		Carried forward.....		.....	226		

Mains Relocated. — *Concluded.*

LOCATION.	District.	Size.	Nominal Pressure.	Number of Feet.	Size before Relocation.	Remarks.
<i>Brought forward</i>.....	.....	.....	.....	226		
Penfield street.....	W. R.	8-in.	H.	12	8-in.	Offset on account of sewers.
".....	"	"	H.	167	"	On account new street line and grade.
Linden street.....	"	"	H.	22	6-in.	"
At Penfield street.....	"	"	H.	21	"	"
Amherst street.....	"	"	H.	140	8-in.	Lowered to conform to street grade.
Wormwood street.....	S. B.	"	L.	230	6-in.	On account of abolishment of grade crossing.
Bremen street.....	E. B.	"	L.	818		
Total 8-inch.....	.....	.....	.....
Fulton place.....	C. P.	6-in.	L.	15	6-in.	Offset on account of gas company.
Elm street.....	"	"	L.	8	"	Straightened out line.
Davenport street.....	"	"	L.	15	"	Lowered on account of 30-inch line.
North Margin street.....	"	"	L.	8	"	" " gas company.
Chickering place.....	"	"	H.	16	4-in.	Offset on account of subway.
La Fayette place.....	Rox.	"	H.	9	6-in.	Raised on account of sewer.
Marble street.....	"	"	L.	18	"	Offset on account of sewer.
Columbus ave. (west side).....	"	"	L.	12	"	Raised on account of 48-inch line.

Avalon road.....	Off Weld street.....	W. R.	"	H.	70	"	Lowered on account of change in street grade.
Grover avenue.....	At Neponset avenue.....	"	"	H.	10	"	Raised on account of sewer.
Neponset court.....	"	"	"	H.	10	"	"
Gilman street.....	Between Sutton and Canterbury streets. ..	"	"	H.	8	"	"
Brook avenue.....	Opposite No. 12.....	Dor.	"	L.	17	"	Offset on account of sewer.
Fenton place.....	At Fenton street.....	"	"	L.	8	"	Raised on account of sewer.
Longfellow street... ..	Near Topliff street.....	"	"	H.	12	"	"
Fenton place.....	At Greenwich street.....	"	"	L.	11	"	"
Lewis street.....	" Webster street.....	E. B.	"	L.	8	"	Offset on account of National Dock Warehouse Company.
Bremen street.....	Between Maverick and Sumner streets.....	"	"	L.	10	"	Raised on account of grade crossing abolishment.
	Total 6-inch.....	.....	.....	.....	265		
Glenwood street.....	At Warren street.....	Rox.	4-in.	H.	15	4-in.	Lowered on account of Boston Elevated railroad.
Leonard court.....	" Leonard street.....	Dor.	"	L.	8	"	Lowered on account of sewer.
	Total 4-inch.....	.....	.....	.....	23		

**Statement of Private Pipe Laid During the Year Ending
January 31, 1907.**

(Not included in Statement of Total Length of Boston Water Department System.)

FOR WHOM.	Where.	District.	Size.	Nominal Pressure.	Number of Feet.
* Institutions Dept....	Deer Island, at new reservoir.....	B. H.	12-in.	L.	60
Sewer Department	Calf Pasture, from Mt. Vernon st., at pumping station.....	Dor.	10-in.	L.	551
“ “	Mt. Vernon street, at Calf Pasture...	“	“	L.	6
“ “	Calf Pasture, at pumping station, between coal-shed and old garbage plant.....	“	8-in.	L.	225
“ “	Calf Pasture, at boiler-room (con- nection between 10-in. and 4-in. lines).....	“	4-in.	L.	21

* Dead.

MAINS ABANDONED.

**Statement of Location, Size, Nominal Pressure, and Number of
Feet Abandoned During the Year Ending January 31, 1907.**

LOCATION.		District.	Size.	Nominal Pressure.	Number of Feet.
Traverse street.....	At Haverhill street.....	C. P.	30-in.	L.	5
Tremont street.....	Between Massachusetts avenue and Coventry street.....	C. P. & Rox.	} “	L.	1,540
	Total 30-inch.....				<u>1,545</u>
Hanover street.....	Between Endicott and Union sts....	C. P.	24-in.	L.	220
Merrimac street.....	“ Canal and Union streets...	“	“	L.	150
Union street.....	“ Hanover street and Hay- market square.....	“	“	L.	370
Washington street....	“ State street and Cornhill..	“	“	L.	273
Adams square.....	“ Washington and Devon- shire streets.....	“	“	L.	75
Chelsea street.....	“ Medford street and north shaft of tunnel.....	Chsn.	“	L.	1,120
Broadway.....	“ Cross and Glen streets....	Som.	“	L.	385
	Total 24-inch.....				<u>2,593</u>

Mains Abandoned. — Continued.

LOCATION.		District.	Size.	Nominal Pressure.	Number of Feet.
Essex street.....	Bet. Washington st. and Hersey pl..	C. P.	20-in.	L.	84
Washington st. North..	At Stillman st. (north side).....	"	"	L.	10
"	Between Union and Stillman sts....	"	"	L.	425
Medford street.....	At Chelsea street.....	Chsn.	"	L.	4
Chelsea street.....	Between Vine and Bunker Hill sts..	"	"	L.	23
	Total 20-inch.....				<u>546</u>
Essex street.....	Bet. Washington st. and Hersey pl..	C. P.	16-in.	L.	9
Canal street.....	" Traverse and Market streets....	"	"	L.	385
"	At Merrimac street.....	"	"	L.	82
Hanover street.....	Bet. N. Bennet and Parmenter sts...	"	"	L.	400
Shawmut avenue.....	Across Ruggles street.....	Rox.	"	L.	46
Highland park....	At standpipe, bet. Fort ave. and Beech Glen street.....	"	"	H.	118
Mt. Washington ave..	At A street.....	S. B.	"	L.	1
Chelsea street.....	Bet. Medford st. and north shaft of tunnel.....	Chsn.	"	L.	31
Mishawum street.....	At Main street.....	"	"	L.	12
	Total 16-inch.....				<u>1,101</u>
Harrison avenue.....	Bet. East Dedham and Malden sts..	C. P.	12-in.	L.	335
"	" Union Park and Savoy streets	"	"	L.	300
Washington street....	" Essex and Bedford streets....	"	"	H.	568
"	" Bedford and Avon streets.....	"	"	H.	50
Canal street.....	Opposite No. 74.....	"	"	H.	16
Washington street....	Between Milk and Water streets....	"	"	H.	228
North street.....	At North square.....	"	"	L.	18
Washington street....	" Elm street.....	"	"	L.	11
Traverse street.....	Across Haverhill street.....	"	"	L.	18
Haverhill street.....	At Washington st. North.....	"	"	L.	14
Washington st. North.	" north side of Stillman street....	"	"	L.	12
Stillman street.....	" Washington st. North.....	"	"	L.	9
Endicott street.....	" Hanover street.....	"	"	L.	10
Cross street.....	Across Endicott street.....	"	"	L.	15
Blackstone street.....	At Hanover street.....	"	"	L.	18
Hanover street.....	" Union street.....	"	"	L.	6
Union street.....	Across Hanover street.....	"	"	L.	14
	<i>Carried forward</i>				<u>1,642</u>

Mains Abandoned. — Continued.

LOCATION.		District.	Size.	Nominal Pressure.	Number of Feet.
	<i>Brought forward.....</i>	.....	.....	.....	1,642
Merrimac street.....	Between Canal and Washington sts.	C. P.	12-in.	L.	50
Sudbury street.....	At Merrimac street.....	"	"	L.	15
Washington street....	Between Cross and Stillman streets.	"	"	L.	109
"	At Union street.....	"	"	L.	40
Cross street.....	" Haymarket square.....	"	"	L.	35
Blackstone street.....	" Cross street.....	"	"	L.	80
Washington street....	" Adams square.....	"	"	H.	20
"	" Hanover street.....	"	"	L.	69
"	" "	"	"	L.	32
Summer street.....	Bet. Washington and Hawley sts...	"	"	L.	37
Union street.....	At Washington street.....	"	"	L.	35
Summer street.....	" "	"	"	H.	42
Water street.....	At Devonshire street.....	"	"	L.	25
Union street.....	" Washington street.....	"	"	L.	38
Washington street....	" south side of Hanover street....	"	"	L.	70
"	" " "	"	"	L.	20
"	Between Hanover and Union sts...	"	"	L.	14
"	" " ...	"	"	L.	80
Adams square.....	Bet. Washington and Devonshire sts.	"	"	H.	75
Ruggles street.....	" Auburn st. and Shawmut ave...	Rox.	"	L.	260
Beech street.....	At Anawan avenue.....	W. R.	"	H.	30
Washington street....	" Montebello road.....	"	"	H.	18
Birch street.....	Near Penfield st., at Stony Brook...	"	"	H.	31
Baker street.....	Between Gardner st. and Baker pl..	"	"	H.	1,228
Penfield street.....	.....	"	"	H.	12
Corey street.....	At Weld street.....	"	"	H.	10
Penfield street.....	Bet. Linden and Amherst streets...	"	"	H.	110
Williams street.....	" Washington and Plainfield sts..	"	"	H.	193
Washington street....	Near Williams street (over Stony brook)	"	"	H.	80
Dudley street.....	At Rockford street.....	Dor.	"	L.	10
Nelson street.....	Bet. Norfolk and Evans streets...	"	"	H.	90
Bay street.....	" Auckland and Maryland sts....	"	"	L.	137
Stillings street.....	At Congress street.....	S. B.	"	L.	7
	<i>Carried forward. ....</i>	.....	.....	.....	4,744

Mains Abandoned. — *Continued.*

LOCATION.		District.	Size.	Nominal Pressure.	Number of Feet.
	<i>Brought forward</i>				4,744
Granite street.....	At Mt. Washington avenue.....	S. B.	12-in.	L.	24
Congress street.....	Bet. A st. and Congress-st. bridge..	"	"	L.	567
"	Near Freight House No. 7.....	"	"	L.	8
Farnsworth street.....	At Congress street.....	"	"	L.	10
Stillings street.....	" "	"	"	L.	4
Congress street.....	" Stillings street.....	"	"	L.	8
A street.....	Near Binford street.....	"	"	L.	17
Maverick street.....	Bet. Bremen and Orleans streets...	E. B.	"	L.	75
Sumner street.	Near Orleans street.....	"	"	L.	8
Saratoga street.....	Between Bremen and Pope streets..	"	"	L.	320
"	At Bremen street.....	"	"	L.	12
Prescott street.....	" east side of Bremen street.....	"	"	L.	24
	Total, 12-inch.....				<u>5,821</u>
Hayward place.....	At Washington street.....	C. P.	10-in.	H.	2
Columbus avenue (east side).....	" Prentiss street.....	Rox.	"	L.	15
Prentiss street.....	" Columbus avenue.....	"	"	L.	20
Maverick street.....	Bet. Bremen and Orleans streets...	E. B.	"	L.	117
Webster street.....	At Lewis street.....	"	"	L.	14
	Total, 10-inch.....				<u>168</u>
Central street.....	At Atlantic avenue.....	C. P.	8-in.	L.	10
Harrison avenue.....	" Rose street.....	"	"	H.	7
Boylston and Essex streets.....	Across Washington street.....	"	"	H.	255
Avery street.....	At Washington street.....	"	"	H.	4
Union street.....	Bet. Washington and Hanover sts..	"	"	L.	285
Washington street...	" Summer and Milk streets.....	"	"	H.	578
Union street.....	Across Hanover street.....	"	"	L.	31
Merrimac street.....	Bet. Sudbury and Washington sts..	"	"	L.	20
Union street.....	At Haymarket square.....	"	"	L.	100
Congress street.....	Between Milk and Franklin streets,	"	"	L.	173
Prince street.....	" Hanover street and Gar- den-court street.....	"	"	L.	110
North square.....	At North street, opposite No. 33.....	"	"	L.	16
	<i>Carried forward</i>				<u>1,589</u>

Mains Abandoned. — Continued.

LOCATION.		District.	Size.	Nominal Pressure.	Number of Feet.
	<i>Brought forward</i>.....	.....	.....	.....	1,589
Richmond street.....	At Hanover street.....	C. P.	8-in.	L.	45
Washington street....	Between No. 342 and No. 348.....	"	"	H.	18
Leon street.....	" Greenleaf and Ruggles sts..	Rox.	"	L.	75
"	" " " ..	"	"	L.	245
Birch street.....	Near Penfield st., at Stony brook....	W. R.	"	H.	5
Grove street.....	" German street.....	"	"	H.	10
Penfield street .....	.....	"	"	H.	10
Anawan avenue.....	At Beech street.....	"	"	H.	35
Arborway.....	" Centre street.....	"	"	H.	47
Penfield street	Between Metcalf and Linden sts....	"	"	H.	167
Vaughan street.....	" Blue Hill avenue and Harvard street.....	Dor.	"	H.	20
Wormwood street....	At private way.....	S. B.	"	L.	5
"	Between private way and railroad tracks.....	"	"	L.	140
"	At A street.....	"	"	L.	10
Binford street.....	" "	"	"	L.	52
Curtis street.....	Between Chelsea and Pope streets...	E. B.	"	L.	440
Gladstone street	From Orienta place	"	"	L.	14
	Total, 8-inch.....	.....	.....	.....	<u>2,927</u>
Fiske wharf.....	Off Commercial street.....	C. P.	6-in.	L.	68
Rollins street.....	At Harrison avenue.....	"	"	L.	20
Chickering place.....	" Washington street.....	"	"	H.	4
Traverse street.....	" Canal street....	"	"	L.	12
Market street.....	" "	"	"	L.	14
Fulton place.....	" North street	"	"	L.	14
Elm street.....	" Washington street.....	"	"	L.	8
Marshall street.....	" Hanover street.....	"	"	L.	7
Thacher street.....	" North Margin street.....	"	"	L.	8
North Margin street...	" Thacher street.....	"	"	L.	8
Lynn street.....	" Cooper and Thacher streets.....	"	"	L.	173
Providence street....	Between Park sq. and Church st....	"	"	L.	234
Berwick park.....	At Columbus avenue.....	"	"	L.	65
Holyoke street.....	" "	"	"	L.	61
Chandler street	" "	"	"	L.	65
	<i>Carried forward</i>.....	.....	.....	.....	<u>761</u>

LOCATION.		District.	Size.	Nominal Pressure.	Number of Feet.
	<i>Brought forward</i>.....	.....	.....	.....	761
Buckingham street....	At Columbus avenue.....	C. P.	6-in.	L.	73
Clarendon street.....	“ “	“	“	L.	30
Yarmouth street	“ “	“	“	L.	60
Appleton street.....	“ “	“	“	L.	100
West Canton street....	Across Columbus avenue.....	“	“	L.	134
Concord square.....	At Columbus avenue	“	“	L.	24
Rutland square	“ “ (west side) ...	“	“	L.	57
Massachusetts avenue (north side).....	“ east side Columbus avenue.....	“	“	L.	28
Massachusetts avenue (south side).....	“ “ “	“	“	L.	35
Clarendon street.....	Between Tremont street and Warren avenue.....	“	“	L.	380
Parmenter street.....	At Hanover street.....	“	“	L.	28
Washington street....	Between State street and Cornhill ..	“	“	H.	249
Auburn street.....	At Ruggles street.....	Rox.	“	L.	12
Cedar street.....	“ Centre street	“	“	H.	58
Fort avenue.....	“ “	“	“	H.	44
La Fayette place.....	“ Julian street.....	“	“	H.	8
Davenport street.....	“ Tremont street.....	“	“	L.	12
Eustis street....	Between Albany and Winslow sts..	“	“	L.	175
Greenleaf street.....	“ Huntington avenue and Leon street	“	“	L.	398
Crowley street.....	At Francis street.....	“	“	L.	53
“	“ Kenwood road	“	“	L.	56
Leon street.....	Between Greenleaf and Ruggles sts..	“	“	L.	327
Marble street.....	At Westminster street.....	“	“	L.	16
Columbus avenue (west side).....	“ Prentiss street.....	“	“	L.	12
Avalon road	Off Weld street	W. R.	“	H.	70
Grover avenue.....	At Neponset avenue.....	“	“	H.	9
Neponset court.....	“ “	“	“	H.	9
Gilman street	Between Sutton and Canterbury sts.	“	“	H.	7
Meehan st. (formerly Stony Brook street).	At Williams street.....	“	“	H.	65
Linden street	“ Penfield street.....	“	“	H.	22
Amherst street.....	“ “	“	“	H.	21
	<i>Carried forward</i>.....	.....	.....	.....	3,333

Mains Abandoned. — Continued.

LOCATION.		District.	Size.	Nominal Pressure.	Number of Feet.
	<i>Brought forward</i>				3,333
Rockford street.....	Between Dudley and Clifton streets,	Dor.	6 in.	L.	384
Russ terrace	Off Savin Hill avenue.....	"	"	H.	24
Rockford street.....	Between Dudley and Clifton streets,	"	"	L.	140
Clifton street.....	" Shirley and Rockford sts..	"	"	L.	230
Shirley street.....	Across Clifton street.	"	"	L.	42
Brook avenue.....	Opposite No. 12.....	"	"	L.	15
Fenton place.....	At Fenton street.....	"	"	L.	7
Maryland street.....	Between Bay st. and Savin Hill ave..	"	"	L.	110
Brook-avenue place...	Off Brook avenue.....	"	"	L.	98
Longfellow street....	Near Topliff street.....	"	"	H.	10
Evans street	Between Milton ave. and Capen st..	"	"	H.	1,096
Thetford avenue.....	At Evans street.....	"	"	H.	31
Stanton street....	" "	"	"	H.	30
Dyer street	" "	"	"	H.	32
Fenton place.....	" Greenwich street.....	"	"	L.	10
Savin Hill avenue....	Bet. Evandale ter. and Denny st....	"	"	H.	933
Russ terrace.....	Off Savin Hill avenue.....	"	"	H.	114
Silver street.....	Between A and B streets (over railroad bridge).....	S. B.	"	L.	36
K street.....	Between Fourth and Sixth streets...	"	"	L.	643
Beckler avenue.....	At K street.....	"	"	L.	36
Fifth street	Across K street.....	"	"	L.	77
Sixth street.....	" "	"	"	L.	80
Lewis street.....	At Webster street.	E. B.	"	L.	8
Bremen street.....	Between Saratoga street and Glendon place	"	"	L.	338
"	At Curtis street.....	"	"	L.	36
Pope street.....	Across Curtis street.....	"	"	L.	62
Saratoga street.....	Between Meridian and Shelby sts..	"	"	L.	3,550
Bremen street.....	" Bennington and Putnam streets	"	"	L.	1,185
Prescott street....	At east side of Bremen street.....	"	"	L.	4
Spice street.....	Between Cambridge street and railroad tracks.....	Chsn.	"	L.	460
Driveway between freight houses 26 and 27 in B. & M. Rutherford avenue yard....	Between Rutherford avenue and railroad tracks.....	"	"	L.	250
	Total, 6-inch.....				13,404

Mains Abandoned.—*Concluded.*

LOCATION.		District.	Size.	Nominal Pressure.	Number of Feet.
Fiske wharf.....	Off Commercial street.....	C. P.	4-in.	L.	340
Park square.....	Between Boylston and Eliot streets.	"	"	L.	287
Providence street.....	" Park square and Church street.....	"	"	L.	234
Bay street.....	From Fayette street.....	"	"	L.	113
Florence street.....	Between Washington street and Harrison avenue.....	"	"	L.	349
Wilkes street.....	Between Washington and Bradford streets.....	"	"	L.	235
Lynn street.....	Bet. Cooper and Thacher streets.....	"	"	L.	150
Thacher court.....	From Thacher street.....	"	"	L.	165
Mechanic street.....	At Hanover street.....	"	"	L.	5
Chickering place.....	" Washington street.....	"	"	H.	14
Glenwood street.....	" Warren street.....	Rox.	"	H.	10
Codman park.....	From Townsend street... ..	"	"	H.	680
Codman Hill street....	Between Codman Park and Washington street.....	"	"	H.	290
Brookside avenue.....	At Green street.....	W. R.	"	H.	220
Leonard court.... ..	" Leonard street.....	Dor.	"	L.	8
Mishawum street.....	" Main street... ..	Chsn.	"	L.	28
	Total, 4-inch.....				<u>3,128</u>
Rockford street.....	Between Dudley and Clifton streets,	Dor.	3-in.	L.	464

Table showing Length of Distribution Mains Laid and Abandoned during the Year 1906, and the Total Length of the Distribution System of the City of Boston January 31, 1907.

	DIAMETER OF MAINS IN INCHES.															Totals.	
	48	42	40	36	30	28	24	20	16	12	10	8	6	4	3		2
Total connected with system January 31, 1906....	33,494	16,813	23,104	43,276	89,137	244	78,340	95,163	199,934	1,178,758	142,586	592,157	1,309,690	71,871	6,709	5,328	3,886,614
Length laid during the year.....	1,558	.....	.....	100	1,554	.....	1,701	39	4,119	26,486	11,766	17,610	3,087	23	.....	3,264	71,307
Length abandoned during the year.....	.....	.....	.....	.....	1,545	.....	2,593	546	1,101	5,821	168	2,927	13,404	3,128	464	.....	31,697
Total connected with system January 31, 1907....	35,052	16,813	23,104	43,376	89,146	244	77,448	94,656	202,952	1,199,423	154,184	606,850	1,299,373	68,766	6,245	8,592	3,926,224 ft. or 743.6 miles

Statement of Hydrant, Blow-off and Reservoir Pipes January 31, 1907.

	DIAMETER IN INCHES.								Totals.
	16	12	10	9	8	6	4	3	
Total length connected with system January 31, 1906.....	474	6,586	105	2,448	1,718	41,455	6,497	44	59,327
Length laid and relaid during the year.....	.....	.....	.....	.....	652	924	4	.....	1,580
Length abandoned during the year.....	.....	50	.....	10	40	297	11	.....	408
Total length connected with system January 31, 1907.....	474	6,536	105	2,438	2,330	42,082	6,490	44	60,499

Main Gates Established and Abandoned during the Year, and Number in System January 31, 1907.

	DIAMETER IN INCHES.													Totals.
	48	40	36	30	24	20	16	12	10	8	6	4	3	
Total number in system January 31, 1906.....	1	5	29	50	67	69	373	2,399	439	1,619	4,034	524	11	9,620
Number established during the year.....	.....	.....	.....	2	2	1	15	89	43	72	29	2	.....	255
Number abandoned during the year .....	.....	.....	.....	1	4	1	7	13	.....	13	64	10	1	114
Total number in system January 31, 1907.....	1	5	29	51	65	69	381	2,475	482	1,678	3,999	516	10	9,761

Private Gates.

	DIAMETER IN INCHES.	Totals.
	10	
Established during the year.....	2	2
Abandoned during the year.....	—	—
Increase	2	2

Blow-off Gates.

	DIAMETER IN INCHES.			Totals.
	4	6	12	
Established during the year.....	2	5	.....	7
Abandoned during the year	2	3	2	7
Increase (+) or decrease (—). ....	.....	+2	—2	

Hydrant Gates.

	DIAMETER.		Totals:
	6	8	
Total number in system, January 31, 1906....	11	.....	11
Established during the year.....	9	10	19
Abandoned during the year.....	.....	.....	.....
Total number in system, January 31, 1907,	20	10	30

Private Hydrant Gates.

	DIAMETER.	Totals.
	6 Inches.	
Total number in system January 31, 1906.....	1	1
Established during the year.....		
Abandoned during the year.....		
Total number in system January 31, 1907.....	1	1

Hydrants Established and Abandoned during the Year.

	ESTABLISHED.					ABANDONED.					
	Lowry.	Boston Lowry.	Ordinary Post.	Bachelor Post.	Totals.	Lowry.	Boston Lowry.	Ordinary Post.	Bachelor Post.	Boston.	Totals.
City Proper (public).....	13	2	1	16	32	25	1	....	1	4	31
" (private).....										1	1
Roxbury (public).....		8	....	23	31	10	7	1	2	1	21
" (private).....				1	1				1	....	1
West Roxbury (public).....	1	10	2	27	40	2	12	4	5	....	23
Brighton (public).....	1	3	....	2	6	....	2	....			2
Dorchester (public).....	4	21	1	26	52	6	15	8	2	....	31
" (private).....				3	3	....		1			1
South Boston (public).....				10	10	3	1	2	2	....	8
East Boston (public).....		5	1	18	24	5	2	9	1	....	17
Charlestown (public).....	4	1	....	14	19	1	....	....			1
" (private).....			1	....	1	....					....
Total number of public.....	23	50	5	136	214	52	40	24	13	5	134
Total number of private.....			1	4	5	....	....	1	1	1	3

**Total Number of Hydrants Connected with Distribution System,
January 31, 1907.**

	Lowry.	Boston Lowry.	Ordinary Post.	Bachelor Post.	Boston.	Smith.	Totals.
City Proper (public).....	619	49	257	433	117	.....	1,475
" (private).....	4	.....	10	4	41	.....	59
Roxbury (public).....	495	93	437	244	41	.....	1,310
" (private).....	2	1	.....	3	10	.....	16
West Roxbury (public).....	107	237	652	111	29	.....	1,136
" (private).....	.....	.....	15	.....	1	.....	16
Brighton (public).....	74	88	391	27	20	.....	600
" (private).....	.....	.....	7	.....	2	.....	9
Dorchester (public).....	415	243	967	243	28	.....	1,896
" (private).....	.....	1	3	4	4	.....	12
South Boston (public).....	195	31	145	185	42	1	599
" (private).....	3	.....	15	.....	28	.....	46
East Boston (public).....	119	32	184	82	7	.....	424
" (private).....	8	.....	7	.....	25	.....	40
Charlestown (public).....	170	38	33	89	2	.....	332
" (private).....	14	1	37	.....	6	.....	58
Deer Island (private).....	.....	.....	20	.....	.....	.....	20
Long Island (private).....	.....	.....	7	.....	.....	.....	7
Thompson's Island (private).....	.....	.....	2	.....	.....	.....	2
Gallop's Island (private).....	.....	.....	1	.....	1	.....	2
Rainsford Island (private).....	.....	3	1	.....	1	.....	5
Quincy.....	.....	1	11	.....	.....	.....	12
Brookline.....	.....	2	.....	.....	.....	.....	2
Total number of public hydrants.....	2,194	811	3,066	1,414	286	1	7,772
Total number of private and suburban hydrants.....	31	9	136	11	119	.....	306

Water Posts.**LOCATION OF WATER POSTS ESTABLISHED AND ABANDONED DURING THE YEAR.***Established.*

Belgrade avenue, opposite Penfield street, West Roxbury.
 Belgrade avenue, opposite Rexhame street, West Roxbury.
 Centre street, at Stimson street, West Roxbury.
 First street, near Q street, South Boston.
 Hillside street, opposite Sunset street, Roxbury.
 Talbot avenue, near Washington street, Dorchester.
 Washington street, near Cornwall street, West Roxbury.

Abandoned.

Atlantic avenue, at Commercial street, City Proper.
 Hillside street, near Wait street, Roxbury.
 Penfield street, opposite Amherst street, West Roxbury.
 Q street, near Third street, South Boston.
 Washington street, near Cornwall street, West Roxbury.
 Washington street, at Norfolk street, Dorchester.

Table Showing Total Number of Water Posts Connected with System, January 31, 1907.

DISTRICTS.	Number connected with System, January 31, 1906.	Established during the Year.	Abandoned during the Year.	Number connected with System, January 31, 1907.
City Proper.....	77	.....	1	76
Roxbury.....	81	1	1	81
West Roxbury.....	97	4	2	99
Brighton.....	54	.....	.....	54
Dorchester.....	108	1	1	108
South Boston.....	40	1	1	40
East Boston.....	44	.....	.....	44
Charlestown.....	22	.....	.....	22
Totals.....	523	7	6	524

Fountains

Style.

Established during the Year.

- A. Hyde Park avenue, at Blakemore street, West Roxbury.
- * G. Mattapan square, at New York, New Haven & Hartford Railroad Depot, Dorchester.
- C. Stoughton street, at Columbia road, Dorchester.

Abandoned during the Year.

- C. Boston Common, Park square entrance, City Proper.
- A. Junction Malden and Wareham streets, City Proper.
- D. South street, at Morton street, West Roxbury.

*This fountain was erected and given to the city by Horatio W. Lamb.

Number of Fountains in Service January 31, 1907.

DISTRICTS.	Style A.	Style B.	Style C.	Style D.	Style E.	Style F.	Style G.	Totals.
City Proper.....	9	4	7	.....	12	.....	.....	32
Roxbury	9	3	2	.....	5	.....	.....	19
West Roxbury.....	5	1	.....	1	2	.....	.....	9
Brighton.....	5	.....	1	.....	.....	.....	.....	6
Dorchester .....	.....	2	1	1	.....	8	1	13
South Boston.....	3	1	3	.....	4	.....	.....	11
East Boston.....	.....	4	3	.....	4	.....	.....	11
Charlestown	1	3	.....	.....	4	.....	.....	8
Totals	32	18	17	2	31	8	1	109

Style.

NOTE.

- A. Indicates fountains for man and beast, with automatic fixtures for man and beast in warm weather, and a continuous flow of water for beasts in cold weather.
- . Indicates fountains for beasts only. Continuous flow of water all the year.
- C. Indicates fountains for man only. Automatic fixtures. In service during warm weather only.
- D. Indicates fountains for man and beast. Automatic fixtures for both. In service during warm weather only.
- E. Indicates cold water fountains for man only. Automatic fixtures. In service during warm weather only.
- F. Indicates fountains for man and beast, with automatic fixtures for man in warm weather, and a continuous flow of water for beasts all the year.
- G. Indicates fountains for man and beast. Hygienic "bubble" fixtures for man. Continuous flow of water for man and beast all the year.

Air Cocks.*Established.*

LOCATION.	District.	Diameter of Main.	Nominal Pressure.	Size of Air Cock.
Tremont street, at Massachusetts avenue, southerly side of south gate on the line	C. P.	30-in.	Low	2-in.
Washington street, at State street	"	24-in.	"	"
Hanover street, at Union street	"	"	"	"
Longwood avenue, opposite No. 190	Rox.	48-in.	"	"
Tremont street, at Burke street	"	30-in.	"	"
Centre street, at Cedar street	"	24 in.	High	"
Bennington st., at Neptune-road bridge, B. & A. R.R.	E. B.	12-in.	Low	1½-in.
Neponset bridge, 4 feet south of connection between 6-foot and 12-inch lines	Quincy	"	High	"
Neponset bridge, 3 feet north of 6-inch gate	"	6-in.	"	"
Neponset bridge, 3 feet south of 6-inch gate	"	"	"	"

Abandoned.

Washington street, at No. 177	C. P.	24-in.	Low	1-in.
Centre street, at Cedar street	Rox.	"	High	"

Blow-offs.*Established.*

LOCATION.	District.	Diameter of Main.	Nominal Pressure.	Size of Gate or Cock Controlling Blow-off.
Clarendon st., at Tremont st. (in Tremont st.).....	C. P.	12-in.	Low	6-in.
Milk street, opposite No. 163.....	"	"	"	"
Park square, opposite No. 9A.....	"	"	"	4-in.
Hewes street, near Rockland street.....	Rox.	6-in.	High	1½-in.
Gardner street, 231 feet from post hydrant.....	W. R.	12-in.	"	6-in.
Chelsea street, opposite No. 139.....	Chsn.	24-in.	Low	"
Chelsea street, opposite No. 139....	"	20-in.	"	"
Main street, at Mishawum street.....	"	6-in.	"	4-in.
Hancock street, at southerly end of Neponset bridge..	Quincy	"	High	¾-in.

Abandoned.

Tremont street, at Camden street.....	C. P.	30-in.	Low	12-in.
India street and Milk street.....	"	12-in.	"	4-in.
Under Chelsea bridge at pier No. 2 (under freight house No. 45).....	Chsn.	24-in.	"	6-in.
Chelsea street, opposite No. 190.....	"	"	"	"
Chelsea street, opposite No. 190.....	"	20-in.	"	"
Chelsea street, at Medford street.....	"	16-in.	"	12-in.
Main street, at Mishawum street.....	"	4-in.	"	4-in.

Fire Reservoirs.

Connections with Boston Water Department system abandoned at :

Church street, at Fayette street, City Proper.

Thacher street, at North Margin street, City Proper.

Saratoga street, opposite No. 27, East Boston.

Deacon Meters.*Established.*

One Deacon Meter and one 2-inch Testing Meter at Mt. Bellevue stand-pipe, Mt. Bellevue, West Roxbury.

Statement of Service Pipes Laid and Abandoned During Year Ending January 31, 1907.

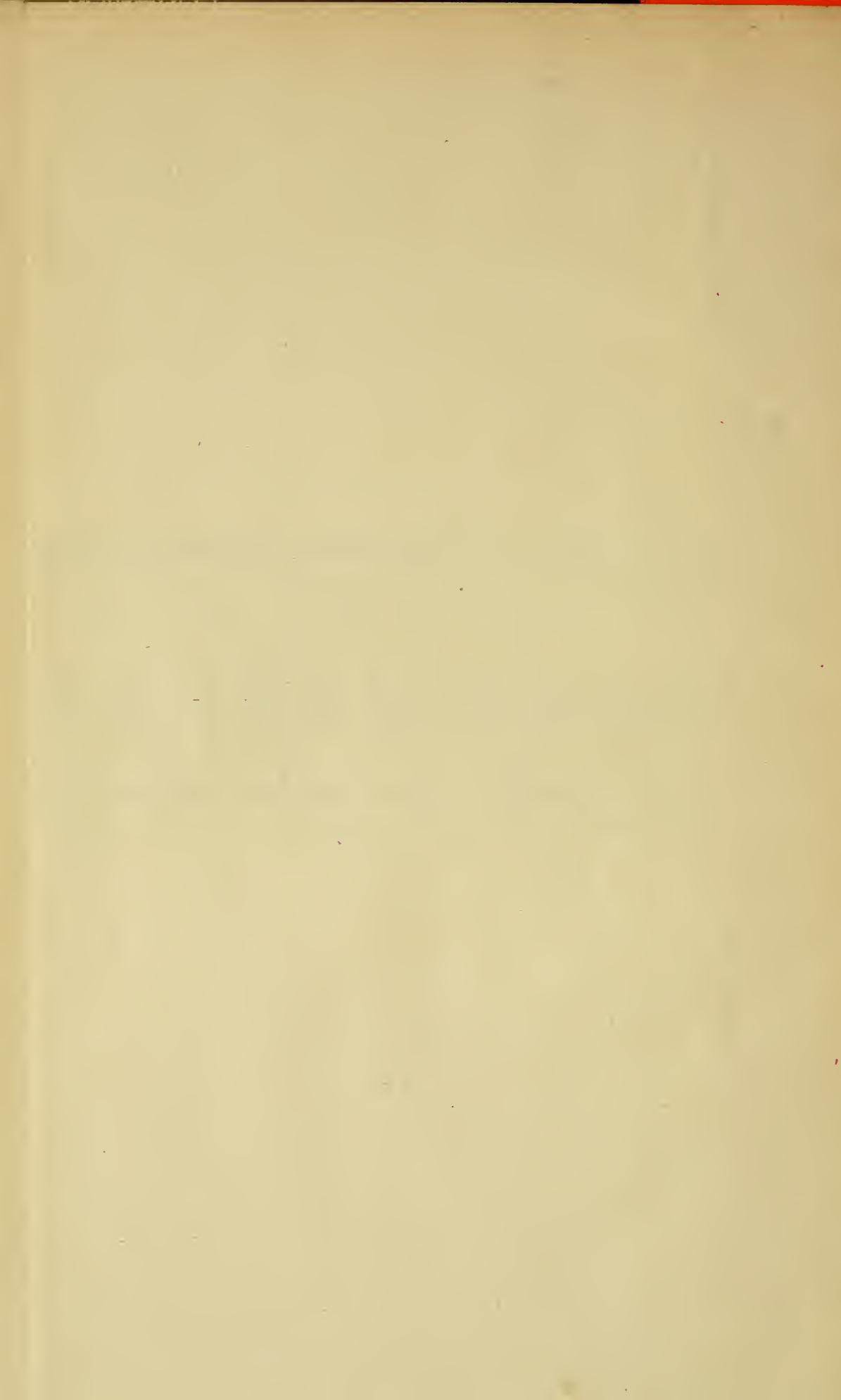
SIZES OF SERVICES LAID AND ABANDONED	CITY PROPER.		ROXBURY.		WEST ROXBURY.		BRIGHTON.		DOR- CHESTER.		SOUTH BOSTON.		EAST BOSTON.		CHARLES- TOWN.		TOTAL.	
	Number of Services.	Length in Feet.	Number of Services.	Length in Feet.	Number of Services.	Length in Feet.	Number of Services.	Length in Feet.	Number of Services.	Length in Feet.	Number of Services.	Length in Feet.	Number of Services.	Length in Feet.	Number of Services.	Length in Feet.	Number of Services.	Length in Feet.
8-inch laid.....	1	6	1	24	1	65	1	27	1	36	1	54	1	36	1	42	2	42
6-inch laid.....	20	509	4	65	4	65	1	14	1	36	14	255	2	54	2	141	4	141
4-inch laid.....	3	61	1	24	1	24	1	12	1	19	1	19	1	19	1	80	4	80
3-inch laid.....	11	189	1	24	1	24	1	12	1	36	1	40	1	40	1	301	15	301
2-inch laid.....	4	48	1	24	1	24	1	12	1	36	1	40	1	40	1	69	5	69
2-inch " abandoned.....	23	530	7	257	1	55	2	35	2	87	4	87	1	47	2	33	40	1,024
1½-inch laid.....	5	118	2	121	2	39	1	28	1	52	3	52	1	35	1	291	10	988
1½-inch " abandoned.....	25	706	3	78	3	60	1	8	1	51	3	51	1	35	1	37	37	266
1½-inch laid.....	3	102	3	39	3	39	2	38	2	59	2	59	1	37	1	212	10	266
1-inch laid.....	4	135	1	34	1	34	1	13	1	38	2	38	1	37	1	64	7	212
1-inch " abandoned.....	1	17	1	34	1	34	1	13	1	38	2	38	1	37	1	64	3	64
1-inch laid.....	54	1,475	10	342	3	88	2	101	3	35	2	35	1	34	3	2,179	78	2,179
3-inch laid.....	11	213	1	16	1	16	1	30	1	40	1	40	1	25	1	10	16	334
3-inch " abandoned.....	56	574	1	16	3	86	3	77	7	97	1	37	1	24	2	44	44	934
2-inch laid.....	9	588	1	13	1	13	1	15	1	15	1	15	1	30	1	30	12	646
2-inch " abandoned.....	93	1,824	91	2,441	132	3,159	53	8,046	374	1,161	47	1,161	82	2,223	20	559	892	20,668
1-inch laid.....	113	2,294	14	379	2	4	5	603	21	292	9	292	19	460	7	141	190	4,274
1-inch " abandoned.....	3	56	2	43	1	43	1	12	1	59	2	59	2	53	11	187	21	410
Total Laid.....	257	5,948	119	3,266	141	3,427	59	8,398	392	1,734	74	1,734	90	2,511	28	738	1,160	27,386
Total Abandoned.....	152	3,497	24	666	3	25	5	681	26	521	18	521	23	575	20	368	271	6,434
Net Increase.....	105	2,451	95	2,600	138	3,402	54	1,263	366	7,717	56	1,213	67	1,936	8	370	889	20,952

**Maintenance Work of Miscellaneous Character Performed
During the Year Ending January 31, 1907.**

	Total number during the year.
Boxes covering main pipe on bridges repaired	23
Brick gate chambers built, replacing wooden boxes	8
Brick gate chambers built around new gates	2
Deacon meter boxes renewed	10
Dead ends blown off	513
Fire reservoir covers renewed	5
Fountain repairs	224
Fountains and troughs cleaned and inspected	3,962
Gate box covers salted in cold weather	6,702
Gate box frames and covers renewed	372
Gate boxes cleaned of mud, water and snow	1,708
Gate boxes inspected	482
Gate boxes raised or lowered	385
Gate boxes renewed	297
Gate boxes repaired	383
Gates in service oiled and tested for general efficiency	453
Gates inspected	824
Gates renewed on account of deterioration	8
Gates repaired	103
Hydrant barrels changed on account of street grading	37
Hydrant barrels changed for various reasons	84
Hydrant box frames and covers renewed	148
Hydrant boxes cleaned of mud, water and snow	1,073
Hydrant boxes raised or lowered	133
Hydrant boxes renewed	382
Hydrant boxes repaired	264
Hydrant cap chains repaired	369
Hydrant caps changed from old to new style	40
Hydrant inspections in cold weather	160,786
Hydrant nipples recut to change thread	414
Hydrants hayed in cold weather	106
Hydrants numbered	4,790
Hydrants in service oiled and tested for general efficiency	3,331
Hydrants painted	843
Hydrants repaired	313
Hydrants thawed out	208
Investigations made where further action on part of Water Department was unnecessary	841
Locations of gates marked	8,718
Main pipe repairs, caused by :	
Blasting	7
Broken pipe	13
Burst pipe	7
Frost	21
Joints blown out	2

Total Number and Aggregate Length of Service Pipes of Various Sizes Connected with Distribution System, January 31, 1907.

6-inch.		12 inch.		15 inch.		18 inch.		24 inch.		30 inch.		36 inch.		42 inch.		48 inch.		54 inch.		60 inch.		72 inch.		84 inch.		Totals			
Number of Services.	Length in Feet.	Number of Services.	Length in Feet.	Number of Services.	Length in Feet.	Number of Services.	Length in Feet.	Number of Services.	Length in Feet.	Number of Services.	Length in Feet.	Number of Services.	Length in Feet.	Number of Services.	Length in Feet.	Number of Services.	Length in Feet.	Number of Services.	Length in Feet.	Number of Services.	Length in Feet.	Number of Services.	Length in Feet.	Number of Services.	Length in Feet.	Number of Services.	Length in Feet.		
1	9	14	1,542	1	1,345	21	2,640	141	21,620	1,060	44,188	692	21,325	1,705	55,107	1,818	46,195	311	10,069	2,326	127,512	2,406	86,673	56,311	2,169,746	7,089	169,998	161,892	3,747,870



Total number
during the year.

Main pipe repairs, caused by :

Joints drawn	24
Joints leaking	54
No cause assigned	199
Operations of Boston Transit Commission	16
Operations of Boston Consolidated Gas Company	1
Pick-hole	2
Settlement	31
Vibration	3
Old castings cleaned and painted	85
Pavement repairs	1,217
Salt (sacks of) purchased and delivered to Fire Department	2,461

Service pipe repairs, caused by :

Blasting	6
Broken by foundation wall	18
Broken by steam-roller	12
Defective couplings	89
Defective joints	52
Defective packing	15
Defective pipes	268
Eaten by ashes	7
Eaten by earth	1
Eaten by lime	2
Electrolytic action	22
Frost (natural)	39
Frost (artificial)	5
Gnawed by rats	8
Main cocks required renewal	126
Main uprights required renewal	88
Operations of Boston Consolidated Gas Company	38
Operations of Boston Elevated Railway Company	26
Operations of Boston Transit Commission	104
Operations of Edison Electric Illuminating Company,	10
Operations of New England Telephone and Telegraph Company	20
Operations of Sewer Department and its agents	109
Pipe stolen	2
Settlement of earth	213
Settlement of service boxes on pipes	33
Sidewalk cocks missing	60
Sidewalk cocks required renewal	196
Sidewalk cocks, old style	83
Sidewalk uprights above and below grade	1,436
Sidewalk uprights in way of edgestones	12
Sidewalk uprights required renewal	395
Stopped by dirt	148
Stopped by fish	16
Stopped by gasket	6

	Total number during the year.
Service pipe repairs, caused by :	
Stopped by rust	319
Stopped by pick	85
Worn out	9
Service pipes changed from tin-lined to all lead	13
Service pipes extended on account of street widening	2
Service pipes equipped with drip cocks to prevent freezing	20
Service pipes lowered as a protection from frost	1
Service pipes lowered on account of change in street grade	1
Service pipes moved from way of various corporations	16
Service pipes shut off and let on to permit owners to make repairs	719
Sidewalk cocks and uprights given to individuals to apply to private pipes	15
Sidewalk uprights inspected	40,613
Temperature of water in cold water fountains taken in summer season	1,946
Water post repairs of various kinds	379
Water posts shut off and let on during cold weather	1,069

**Statement of Stock Manufactured from the Rough in the
Machine Shop, Blacksmith Shop and Carpenter Shop
During the Year Ending January 31, 1907.**

MACHINE AND BLACKSMITH SHOPS.

Bolts:		Hydrant wastes	531
Lowry hydrant	12	Jointers:	
Boston Lowry hydrant	104	4-inch	9
Post hydrant	701	6 "	26
Lowry hydrant extension,	5	8 "	18
Post hydrant extension	3	10 "	16
Hoop	24	12 "	18
Air cock	236	16 "	5
Eye bolts:		20 "	3
1-inch	23	24 "	2
1 $\frac{1}{4}$ "	2	30 "	3
1 $\frac{1}{2}$ "	6	36 "	1
Cocks, air:		Nipples, main:	
2-inch	11	1 $\frac{1}{2}$ -inch	50
Cocks, angle:		2 "	23
$\frac{5}{8}$ -inch	122	Nipples, meter:	
Cocks, corporation:		$\frac{5}{8}$ -inch	53
$\frac{5}{8}$ -inch	1,714	1 "	27
$\frac{3}{4}$ "	85	2 "	20
1 "	100	Nipples, solder:	
1 $\frac{1}{2}$ "	101	$\frac{3}{4}$ -inch	88
Cocks, puddling head:		1 "	89
1 $\frac{1}{2}$ -inch	2	2 "	50
Cocks, sidewalk:		Nuts, combination:	
$\frac{5}{8}$ -inch	1,530	1-inch	10
1 "	75	Nuts, coupling:	
Cocks, tee:		$\frac{1}{2}$ -inch	237
$\frac{5}{8}$ -inch	8	$\frac{5}{8}$ "	7,045
Cocks, water post:		$\frac{3}{4}$ "	289
1 $\frac{1}{2}$ -inch	13	1 "	378
2 "	200	1 $\frac{1}{2}$ "	210
Couplings, bent:		2 "	83
1 $\frac{1}{2}$ -inch	25	Pins, gate	5,210
Couplings, combination:		Plugs, iron:	
$\frac{3}{4}$ -inch	105	$\frac{5}{8}$ -inch	120
1 "	63	1 "	1
1 $\frac{1}{2}$ "	50	1 $\frac{1}{4}$ "	1
2 "	37	1 $\frac{1}{2}$ "	4
Couplings, male:		Reducers, meter:	
$\frac{5}{8}$ -inch	1,155	$\frac{3}{4}$ -inch	330
1 "	118	1 "	100
1 $\frac{1}{2}$ "	120	Set screws:	
2 "	50	$\frac{1}{2}$ -inch	598
Gates:		1 "	262
3-inch	13	Sidewalk bushings	1,295
4 "	34	Tubes, bent:	
6 "	2	1-inch	12
6 " by-pass	6	1 $\frac{1}{2}$ "	13
8 "	71	Tubes, coupling:	
10 "	46	$\frac{5}{8}$ -inch	6,419
12 "	78	$\frac{3}{4}$ "	607
16 "	20	1 "	110
24 "	2	1 $\frac{1}{2}$ "	256
Hydrants:		2 "	87
Bachelder post	142		
Boston Lowry	12		
Lowry	33		

CARPENTER SHOP.

Boxes:

Boston hydrant	12
Boston Lowry hydrant	61
Deacon meter	9
Gate, large	1
Gate, small	600
Lowry hydrant	124
Post hydrant	500

Box pieces:

Boston hydrant—	
1-inch	40
2 "	12
3 "	6
4 "	6
10 "	3
Gate box, large—	
1-inch	125
2 "	50
Gate box, small—	
1-inch	825

Box pieces:

Gate box, small—	
2-inch	682
3 "	279
4 "	140
6 "	20
9 "	40
10 "	10

Lowry hydrant—

1-inch	650
2 "	338
3 "	180
4 "	25
6 "	26
9 "	10

Box tops:

Gate, large	24
Gate, small	125
Lowry	76
Posts	112

OLD STOCK RENOVATED BY MACHINE AND BLACKSMITH SHOPS.

Bolts:

Boston Lowry hydrant	39
Lowry hydrant	125
Post hydrant	26

Cocks, corporation:

$\frac{1}{2}$ -inch	9
$\frac{3}{8}$ "	36
$\frac{3}{4}$ "	7
1 "	12
$1\frac{1}{4}$ "	6
$1\frac{1}{2}$ "	10

Cocks, sidewalk:

$\frac{3}{8}$ -inch	45
$\frac{3}{4}$ "	3
1 "	2

Cocks, tee:

1-inch \times $\frac{5}{8}$ -inch	6
---	---

Cocks, water post:

$1\frac{1}{2}$ -inch	13
2 "	200

Couplings, male:

$\frac{1}{2}$ -inch	1
$\frac{5}{8}$ "	64
$\frac{3}{4}$ "	8
1 "	5
$1\frac{1}{2}$ "	3
2 "	1

Gates:

3-inch	3
4 "	10
6 "	18

Gates:

8-inch	6
10 "	2
12 "	11
16 "	1
20 "	1
24 "	2
Smith	5

Hydrants:

Boston	7
Boston Lowry	45
Lowry	67
Posts	32
Hydrant wastes	75

Nipples, solder:

$\frac{3}{8}$ -inch	1
$1\frac{1}{2}$ "	2
2 "	6

Nuts, coupling:

$\frac{5}{8}$ -inch	430
1 "	30
$1\frac{1}{4}$ "	4
$1\frac{1}{2}$ "	21
2 "	15

Tubes, coupling:

$\frac{5}{8}$ -inch	595
$\frac{3}{4}$ "	7
1 "	8
$1\frac{1}{4}$ "	1
$1\frac{1}{2}$ "	8
2 "	6

In addition to the foregoing, the machine, carpenter, paint, plumbing and blacksmith shops performed much work of miscellaneous nature in the maintenance and improvement

of the property of the Water Department. Some of the important items are as follows:

	Total Cost.
Sharpened 20,577 picks, 1,909 bars and 1,884 chisels,	\$1,325 74
Repaired tools of all kinds	1,289 86
Repairs of various kinds in and around shops	1,125 79
Made 825 tools of various kinds	1,111 71
Made repairs in stables throughout department.	1,068 74
Repaired and painted wagons, carriages and sleighs	1,014 20
Made 133 new patterns	813 20
Painting and whitewashing offices and machine shops,	406 44
Repairing property at East Boston and Charlestown	267 24
Fitting up new off and on quarters	231 45
Repaired 21 patterns	171 87
Repairs at reservoirs	165 58
Odd jobs for Engineering Department	151 13
Made 609 wooden plugs	113 31

REPORT OF THE ENGINEER.

CITY OF BOSTON,
ENGINEERING DEPARTMENT,
50 CITY HALL, January 31, 1907.

WILLIAM J. WELCH, ESQ.,

Water Commissioner:

DEAR SIR, — A large part of the work done during the past year was of a routine character. In order to decrease the excessive loss of head existing on the low service between Chestnut Hill reservoir and the city proper it was decided to lay a 48-inch main from the 30-inch and 36-inch mains in Tremont street, via Prentiss street and Longwood avenue, to connect with the 40-inch main in Brookline avenue, and thence to extend it in the near future to connect with the 48-inch main in Beacon street, Brookline, at Coolidge Corner. A beginning was made on this work during the year by laying 1,462 feet of 48-inch pipe in Longwood avenue, westerly from Huntington avenue.

The work of replacing the old 30-inch main in Tremont street, begun in 1903, was continued, and 568 feet of pipe was laid from Kendall street to a point near Burke street, where the old pipe was found to be in good condition. The old 30-inch main from Massachusetts avenue to Burke street was abandoned.

A large amount of miscellaneous work was done in connection with the construction of the subway in Washington street; it was necessary to abandon the 24-inch main in Union street, Haymarket square and Merrimac street, from Hanover street to Canal street, and the 20-inch main in Washington street North, from Union street to Stillman street; to replace these pipes a 30-inch pipe was laid from the 30-inch main in Traverse street, via Haverhill street, Stillman street and Endicott street, to Cross street, where a 30-inch branch was left for a future extension; from this point a 24-inch pipe was laid in Endicott street to Hanover street and the old 24-inch pipe in Hanover street was relaid. The 24-inch main in Washington street was relaid from State street to Adams square. All of these large mains, abandoned on account of the subway construction, were a part of the original distribution system.

Considerable progress was made in the work of extending the high and low service systems to the South Boston flats, 226 feet of 24-inch and 959 feet of 16-inch pipe being laid, principally in Congress street.

The work of increasing the supply of water for fire purposes was continued, and improvements in this line were made in different parts of the city, notably in Charlestown, where about one mile of 12-inch pipe, supplying hydrants, was laid in the yards of the Boston & Maine Railroad, west of Rutherford avenue; this work has greatly lessened the serious danger which threatened Charlestown from fires originating in the Boston & Maine Railroad freight sheds, which extend along Rutherford avenue from the State Prison almost to Cambridge street.

A 2-inch lead pipe, laid in 1895 from Moon Island to Long Island, was taken up and was laid between Long and Rainsford Islands to serve as an emergency pipe, as the existing 4-inch flexible pipe had failed several times.

Electrical investigations have been continued, and additional evidence has been found that serious damage is being done to the water pipe system by electrolysis.

Respectfully submitted,

WILLIAM JACKSON,
City Engineer.

Monthly Rainfall in Inches During 1906 in Various Places in Eastern Massachusetts.

PLACES.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Framingham	2.50	2.88	6.13	2.72	5.25	3.38	3.13	2.64	2.91	3.11	2.50	4.39	41.54
Dam 4, Ashland	2.46	2.94	6.45	2.77	5.67	3.76	3.47	3.24	3.42	3.51	2.64	4.53	44.86
Cordaville	2.59	3.07	6.56	3.25	6.33	4.63	3.63	3.77	3.99	3.85	3.12	4.68	49.47
Lake Cochituate	2.66	2.59	6.47	2.60	4.98	3.44	3.04	2.37	2.84	3.26	2.50	4.68	41.43
Chestnut Hill Reservoir	3.65	3.17	7.42	2.62	5.43	3.56	4.13	1.82	2.92	3.71	3.37	5.36	47.16
Spot Pond	2.63	2.37	6.46	1.97	5.28	4.61	3.69	2.36	2.26	2.65	3.04	4.54	41.86
Cambridge Observatory	2.82	3.05	7.32	2.32	4.67	1.68	5.37	1.63	2.44	3.09	3.47	2.80	40.66
Waltham, Boston Manufacturing Company	3.10	2.76	5.43	3.24	5.49	4.41	3.53	2.78	3.08	3.15	3.11	5.09	45.17
Lowell, Locks and Canals Company	2.43	2.59	6.00	3.00	6.00	4.80	5.95	3.47	1.43	2.38	3.08	4.20	45.33
Main Drainage Yard, 795 Massachusetts avenue	2.96	2.95	4.46	1.90	4.77	2.36	4.73	1.17	2.64	5.01	3.33	2.90	39.18
Average of above ten places	2.78	2.84	6.27	2.64	5.39	3.66	4.07	2.53	2.79	3.37	3.02	4.32	43.67

Average Stated Monthly Heights, in Feet, above City Base, to which Water Rose at Different Stations, on the Boston Water Works.

GENERAL STATISTICS.

BOSTON WATER DEPARTMENT.

Daily average amount used (gallons).	90,951,800
Daily Average amount used through meters during 1906 (gallons)	21,055,600
Number of services February 1, 1907	93,202
Number of meters in service February 1, 1907	5,084
Number of motors under supervision February 1, 1907	120
Number of elevators under supervision February 1, 1907	591
Length of supply and distributing mains in miles February 1, 1907	743.6
Number of public hydrants in use February 1, 1907	7,772
Yearly revenue from annual water rates (assessed)	\$1,350,188.41
Yearly revenue from metered water (assessed),	\$1,173,696.71
Percentage of total revenue from metered water,	46.51
Yearly expense of maintenance	\$532,189.33

¹BOSTON WATER BOARD.

ORGANIZED JULY 31, 1876.

-
- *TIMOTHY T. SAWYER, from July 31, 1876, to May 5, 1879; and from May 1, 1882, to May 4, 1883.
 *LEONARD R. CUTTER, from July 31, 1876, to May 4, 1883.
 *ALBERT STANWOOD, from July 31, 1876, to May 7, 1883.
 *FRANCIS THOMPSON, from May 5, 1879, to May 1, 1882.
 WILLIAM A. SIMMONS, from May 7, 1883, to August 18, 1885.
 GEORGE M. HOBBS, from May 4, 1883, to May 4, 1885.
 JOHN G. BLAKE, from May 4, 1883, to August 18, 1885.
 WILLIAM B. SMART, from May 4, 1885, to March 18, 1889.
 *HORACE T. ROCKWELL, from August 25, 1885, to April 25, 1888.³
 THOMAS F. DOHERTY, from August 26, 1885, to May 5, 1890; and from May 4, 1891, to July 1, 1895.
 ROBERT GRANT, from April 25, 1888, to July 17, 1893.³
 PHILIP J. DOHERTY, from March 18, 1889, to May 4, 1891.
 *JOHN W. LEIGHTON, from May 5, 1890, to July 1, 1895.
 WILLIAM S. McNARY, from August 15, 1893, to November 5, 1894.³
 CHARLES W. SMITH, from January 23, 1895, to July 1, 1895.
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¹WATER COMMISSIONERS.

- CHARLES W. SMITH, from July 1, 1895, to January 20, 1896.³
 JEREMIAH J. MCCARTHY (Acting), from January 20, to February 1, 1896.
 JOHN R. MURPHY, from February 1, 1896, to October 17, 1899.³
 BENJAMIN W. WELLS (Acting), from October 17, 1899, to December 28, 1899.
 *AUGUSTUS P. MARTIN, from December 28, 1899, to March 13, 1902.²
 JAMES DONOVAN (Acting), from March 14 to 17, 1902.
 EUGENE S. SULLIVAN, from March 17, 1902, to January 11, 1906.³
 WILLIAM JACKSON (Acting), from January 11, 1906, to March 1, 1906.
 WILLIAM J. WELCH, from March 1, 1906, to present time.

Assistant Water Commissioners.

- JEREMIAH J. MCCARTHY, from July 1, 1895, to January 20, 1896.
 EDWARD C. ELLIS, from February 17, 1896, to November 1, 1900.
 *MELVIN P. FREEMAN, from February 7, 1900, to March 9, 1902.³
 WILLIAM H. OAKES, from November 1, 1900, to March 9, 1902.³
 EUGENE S. SULLIVAN, from March 10 to March 17, 1902.
 JOHN J. LEAHY, from March 21, 1902, to March 1, 1906.
 ISAAC ROSNOSKY, from March 10, 1902, to present time.
 JOSEPH J. NORTON, from March 1, 1906, to present time.
 JAMES P. LENNON, from March 1, 1906, to present time.

Chief Clerk (and Secretary to September 10, 1906).

WALTER E. SWAN.

Secretary (from September 10, 1906).

JOHN J. FENENO.

¹ Under chapter 449 of the Acts of 1895 the Boston Water Board was abolished, and the Water Supply and Water Income Departments consolidated and placed under the charge of one Water Commissioner.

* Deceased.

² Died in office.³ Resigned.

General Superintendent Income Division.

JOS. H. CALDWELL.

In charge of Distribution Division.

Assistant Commissioner JAMES P. LENNON (from March 1, 1906).

City Engineer and Engineer of the Department.

WILLIAM JACKSON.

